

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P318514

Luminaire Tested: **GLEON-SA0A-827-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318514  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-827-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33916 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

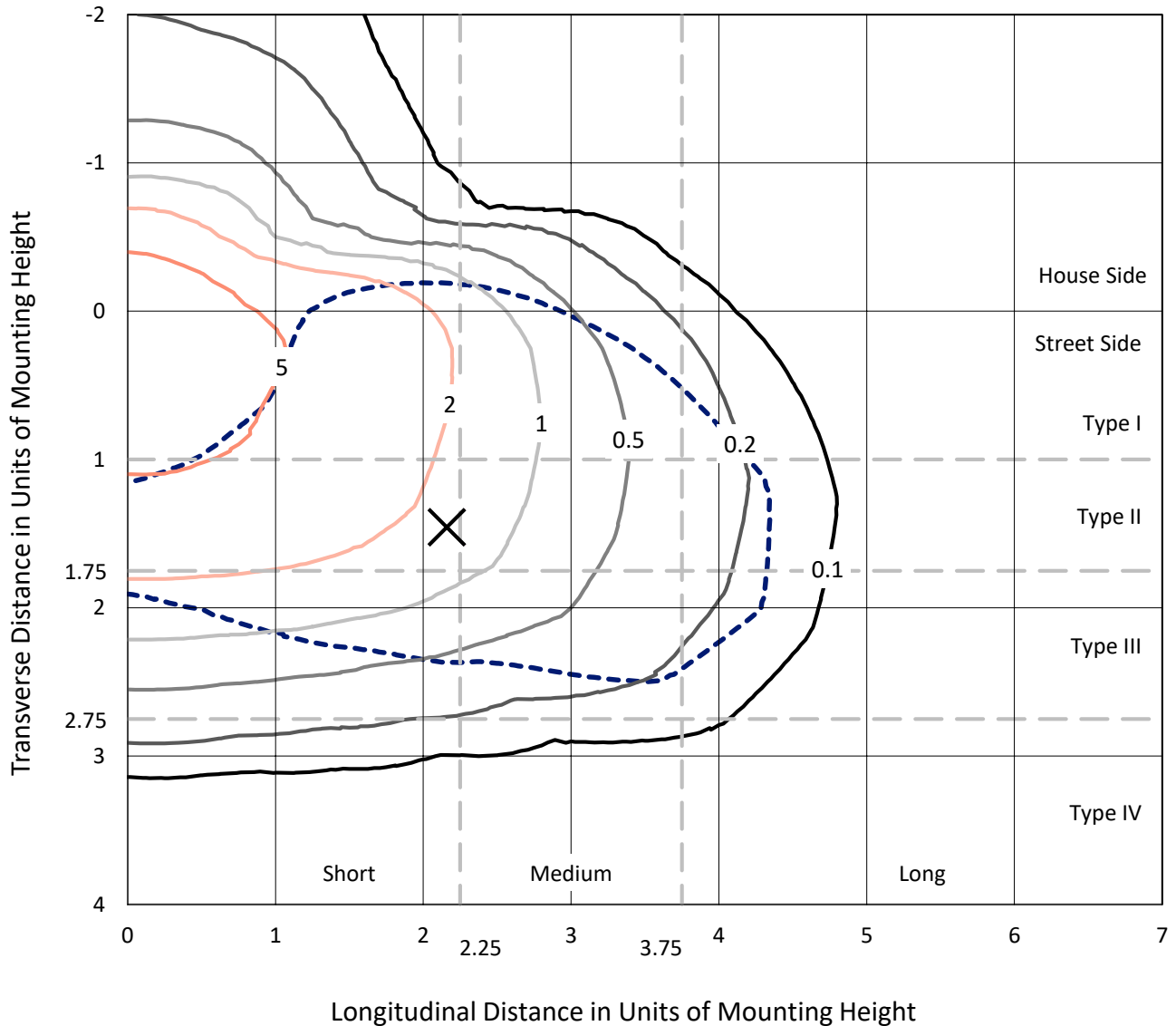
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

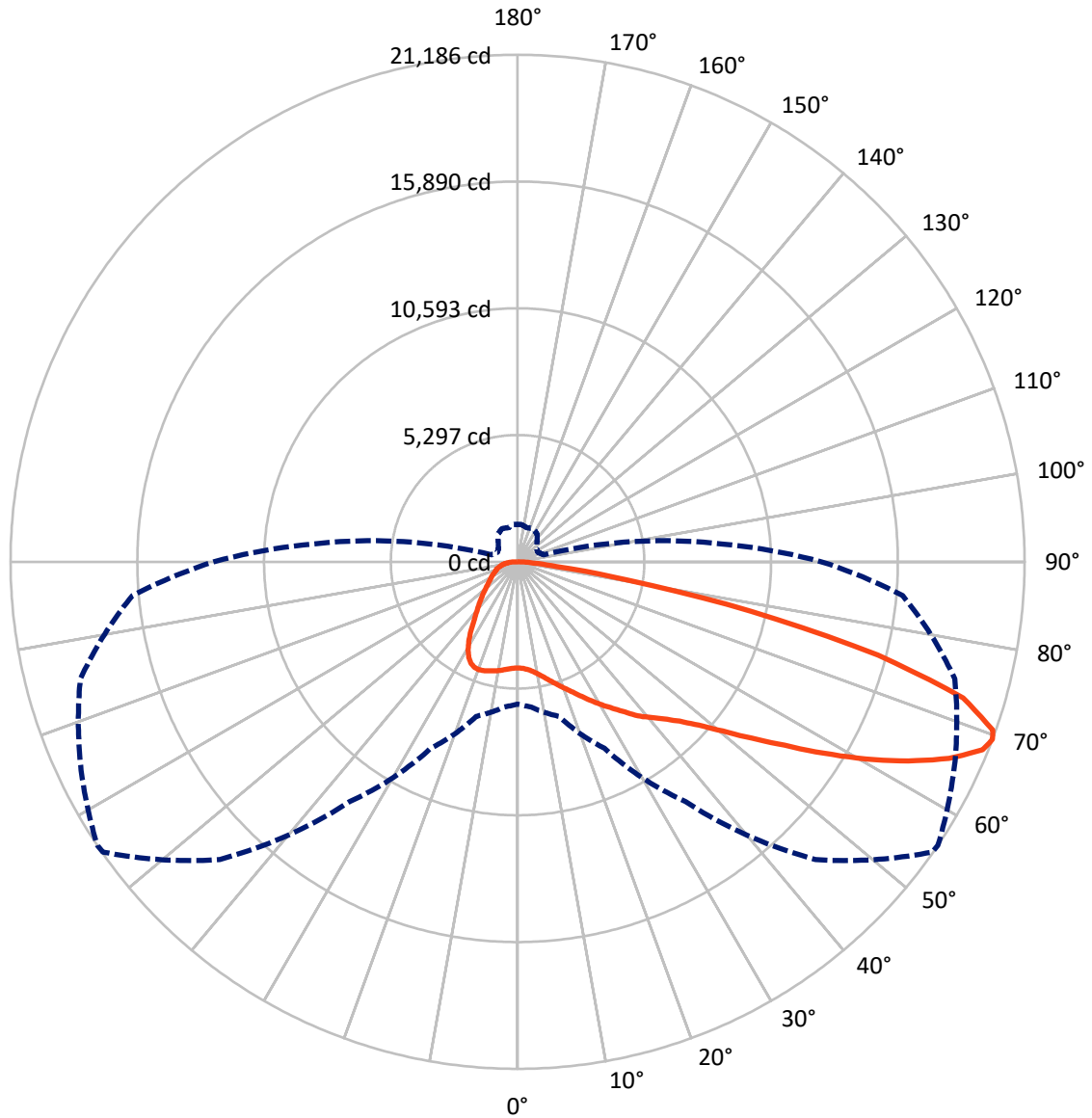
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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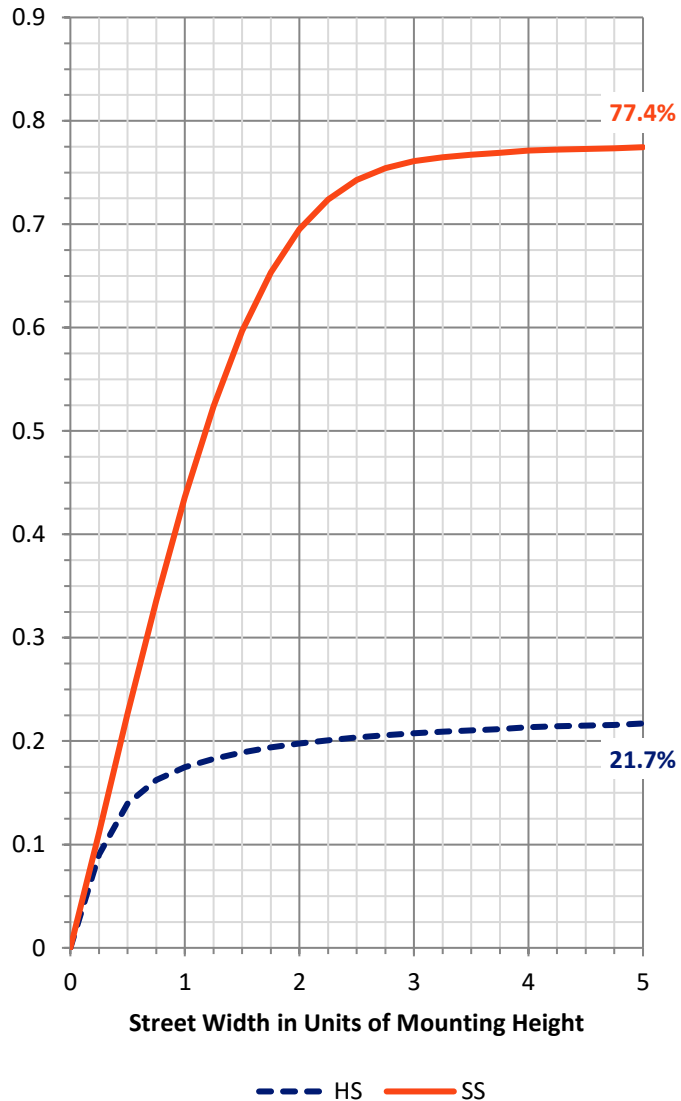
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7553.0	0.0	7553.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	26363.0	0.0	26363.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	33916.0	0.0	33916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	435.5	1.3
10°-20°	1400.4	4.1
20°-30°	2444.5	7.2
30°-40°	3511.4	10.4
40°-50°	4859.6	14.3
50°-60°	7120.0	21.0
60°-70°	8680.7	25.6
70°-80°	4799.2	14.2
80°-90°	664.7	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33916.0	100.0
0°-180°	33916.0	100.0

**Coefficient of Utilization**



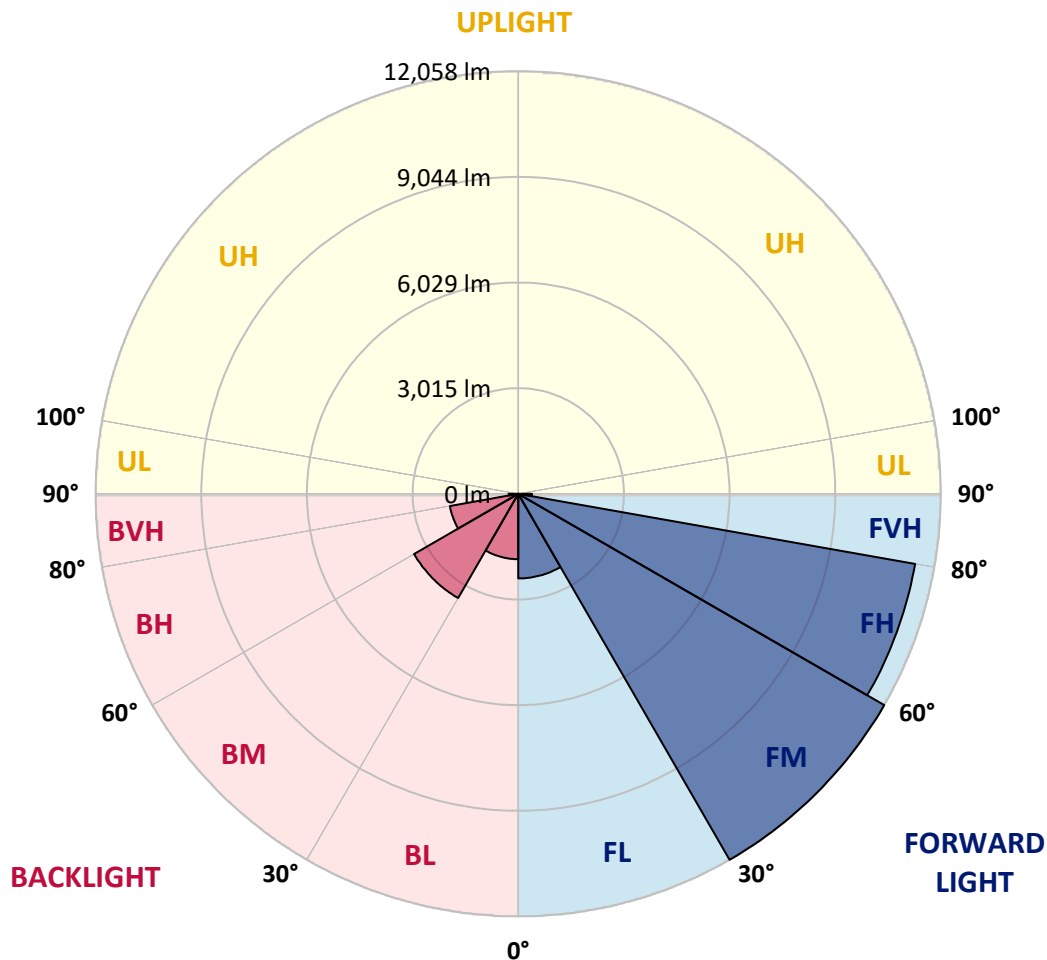
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2413.8	7.1			
FM (30°-60°)	12058.4	35.6			
FH (60°-80°)	11499.2	33.9			G4/12000
FVH (80°-90°)	391.5	1.2			G3/500
BL (0°-30°)	1866.5	5.5	B3/2500		
BM (30°-60°)	3432.7	10.1	B3/5000		
BH (60°-80°)	1980.6	5.8	B3/2500		G3/2500
BVH (80°-90°)	273.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0
2.5°	4462.0	4466.7	4463.2	4472.6	4462.0	4469.1	4463.2	4463.2	4459.7	4449.2	4437.5
5°	4532.2	4541.5	4535.7	4545.0	4532.2	4534.5	4524.0	4524.0	4513.5	4491.3	4467.9
7.5°	4642.0	4652.5	4647.8	4657.2	4639.6	4639.6	4625.6	4624.5	4603.4	4567.2	4540.3
10°	4772.8	4786.9	4782.2	4796.2	4782.2	4786.9	4772.8	4772.8	4744.8	4693.4	4659.5
12.5°	4963.3	4980.8	4968.0	4966.8	4960.9	4970.3	4958.6	4956.3	4930.6	4860.5	4813.7
15°	5218.0	5236.7	5209.8	5207.5	5174.8	5171.3	5171.3	5167.7	5151.4	5067.3	4990.2
17.5°	5511.3	5517.1	5493.7	5456.3	5414.3	5387.4	5383.9	5393.2	5393.2	5295.1	5172.4
20°	5798.7	5809.2	5790.5	5748.4	5694.7	5655.0	5626.9	5645.6	5644.4	5527.6	5353.5
22.5°	6111.8	6136.3	6108.3	6054.6	5991.5	5947.1	5898.0	5914.3	5915.5	5771.8	5531.1
25°	6517.2	6495.0	6477.5	6401.6	6311.6	6266.0	6220.5	6236.8	6232.1	6034.7	5714.6
27.5°	6875.9	6880.6	6857.2	6776.6	6672.6	6572.1	6569.8	6580.3	6562.8	6308.1	5887.5
30°	7293.0	7295.4	7262.7	7190.2	7076.9	6947.2	6916.8	6934.3	6897.0	6567.5	6069.7
32.5°	7707.8	7719.5	7683.3	7595.6	7504.5	7346.8	7286.0	7297.7	7204.2	6832.7	6257.8
35°	8071.2	8087.5	8075.9	8017.4	7918.1	7782.6	7710.1	7703.1	7587.5	7157.5	6506.7
37.5°	8441.6	8456.7	8443.9	8394.8	8355.1	8211.4	8172.8	8172.8	7971.9	7489.3	6823.3
40°	8822.4	8845.8	8830.6	8762.9	8729.0	8663.5	8571.2	8549.0	8331.7	7887.7	7339.8
42.5°	9176.5	9206.8	9267.6	9227.9	9158.9	9168.3	8982.5	8970.8	8811.9	8476.6	7988.2
45°	9678.9	9723.3	9826.1	9795.7	9781.7	9730.3	9509.5	9498.9	9438.2	9268.8	8793.2
47.5°	10226.8	10287.6	10473.4	10479.2	10629.9	10533.0	10232.7	10196.5	10210.5	10217.5	9775.8
50°	10731.6	10798.2	11103.1	11246.8	11602.0	11623.1	11142.9	11110.1	11165.1	11326.3	10920.9
52.5°	11134.7	11218.8	11599.7	12043.7	12652.4	12825.3	12263.3	12238.8	12279.7	12557.8	12215.4
55°	11430.3	11521.4	11936.2	12744.7	13716.8	14021.7	13553.2	13529.9	13555.6	13909.6	13623.3
57.5°	11499.2	11521.4	12123.1	13216.7	14615.3	15347.9	15131.7	15085.0	14958.8	15267.2	15177.3
60°	11175.6	11264.4	11968.9	13382.6	15310.5	16655.3	16781.5	16723.0	16369.0	16621.4	16549.0
62.5°	10518.9	10677.8	11392.9	13130.3	15582.7	17723.2	18399.7	18329.6	17719.7	17883.2	17535.1
65°	9446.4	9514.1	10265.4	12259.8	15236.9	18406.7	19842.6	19807.6	19039.9	18784.1	17717.3
67.5°	7527.9	7655.2	8293.2	10440.7	13821.9	18326.1	20958.4	20954.9	19902.2	19118.2	17071.2
69°	5947.1	6079.1	6686.6	8600.5	12230.6	17588.8	21145.4	21186.3	20145.2	18914.9	16148.2
70°	4741.3	4894.3	5311.5	7244.0	10818.0	16616.7	20990.0	21063.6	20098.5	18579.6	15296.4
72.5°	2017.8	2141.6	2438.4	3734.1	6593.2	12408.2	19191.8	19469.9	19015.4	17004.6	12641.9
75°	881.0	919.5	1053.9	1522.4	2926.8	6753.2	15034.7	15548.8	16259.2	14373.4	9417.2
77.5°	644.9	661.3	734.9	893.8	1313.3	2550.6	9668.4	9967.5	11725.9	10459.3	5776.5
80°	498.9	510.6	567.8	656.6	857.6	1031.7	4409.5	4666.5	6593.2	5372.2	2405.7
82.5°	397.2	405.4	445.2	483.7	592.4	625.1	1464.0	1624.0	2433.7	1483.8	636.8
85°	369.2	378.6	392.6	352.9	379.7	366.9	633.3	662.5	734.9	583.0	266.4
87.5°	167.1	197.5	389.1	274.6	202.1	161.2	259.4	271.1	304.9	306.1	118.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0	4434.0
2.5°	4444.5	4441.0	4446.9	4432.8	4450.4	4449.2	4443.4	4445.7	4457.4	4456.2	4457.4
5°	4471.4	4469.1	4476.1	4465.6	4486.6	4493.6	4494.8	4505.3	4518.1	4521.6	4521.6
7.5°	4539.2	4539.2	4542.7	4528.6	4542.7	4541.5	4535.7	4546.2	4559.0	4560.2	4559.0
10°	4656.0	4657.2	4651.3	4615.1	4603.4	4571.9	4542.7	4543.8	4560.2	4573.0	4576.5
12.5°	4803.2	4798.5	4772.8	4706.2	4657.2	4592.9	4562.5	4561.4	4577.7	4588.2	4591.7
15°	4971.5	4958.6	4892.0	4783.4	4696.9	4633.8	4584.7	4573.0	4563.7	4552.0	4553.2
17.5°	5130.4	5101.2	4990.2	4839.4	4748.3	4664.2	4569.5	4493.6	4441.0	4410.6	4401.3
20°	5291.6	5234.3	5074.3	4892.0	4776.3	4623.3	4441.0	4286.8	4191.0	4146.6	4138.4
22.5°	5438.8	5346.5	5152.6	4946.9	4754.1	4485.4	4199.2	3974.8	3841.6	3782.0	3786.7
25°	5582.5	5454.0	5234.3	4985.5	4642.0	4242.4	3862.7	3586.9	3432.7	3366.1	3363.8
27.5°	5708.7	5562.7	5323.1	4953.9	4432.8	3896.6	3464.3	3195.5	3067.0	3009.7	3000.4
30°	5853.6	5699.4	5441.2	4833.6	4126.7	3497.0	3075.2	2885.9	2794.8	2737.5	2727.0
32.5°	6030.0	5885.1	5538.1	4615.1	3735.3	3079.9	2771.4	2639.4	2556.4	2492.2	2480.5
35°	6287.1	6130.5	5562.7	4302.0	3305.4	2750.4	2548.2	2412.7	2300.5	2217.6	2209.4
37.5°	6609.5	6437.8	5506.6	3896.6	2888.2	2536.6	2362.5	2195.4	2049.3	1932.5	1913.8
40°	7074.5	6815.2	5351.2	3429.2	2581.0	2371.8	2181.4	1990.9	1809.8	1673.1	1646.2
42.5°	7633.0	7258.0	5112.8	2964.2	2355.5	2204.7	2001.4	1765.4	1592.5	1495.5	1481.5
45°	8343.4	7718.3	4782.2	2557.6	2133.5	2037.7	1807.5	1590.2	1482.7	1411.4	1399.7
47.5°	9154.3	8234.8	4435.2	2226.9	1945.4	1881.1	1652.1	1511.9	1426.6	1370.5	1360.0
50°	10150.9	8817.8	4067.1	1955.9	1756.1	1693.0	1578.5	1468.7	1400.9	1357.7	1347.1
52.5°	11274.9	9475.6	3801.9	1742.1	1599.5	1553.9	1539.9	1445.3	1390.4	1357.7	1347.1
55°	12485.3	10145.1	3515.7	1562.1	1464.0	1476.8	1514.2	1447.6	1410.2	1370.5	1355.3
57.5°	13696.9	10836.7	3196.7	1410.2	1356.5	1419.6	1496.7	1452.3	1420.8	1382.2	1368.2
60°	14655.0	11274.9	2702.5	1282.9	1271.2	1356.5	1454.6	1417.2	1376.4	1377.5	1375.2
62.5°	15102.5	11251.5	2156.8	1169.5	1185.9	1271.2	1386.9	1362.3	1328.4	1374.0	1377.5
65°	14851.3	10690.7	1679.0	1066.7	1094.8	1182.4	1316.8	1335.5	1347.1	1434.8	1446.5
67.5°	13797.4	9599.4	1300.4	976.8	1011.8	1121.6	1323.8	1454.6	1469.8	1562.1	1561.0
69°	12707.3	8575.9	1129.8	930.0	970.9	1136.8	1414.9	1530.6	1473.3	1571.5	1557.5
70°	11793.6	7766.2	1038.7	898.5	952.2	1163.7	1475.7	1529.4	1455.8	1539.9	1516.6
72.5°	9083.0	5587.2	881.0	840.1	889.1	1113.5	1493.2	1495.5	1414.9	1431.3	1391.5
75°	6229.8	3530.8	768.8	760.6	793.3	1003.6	1437.1	1428.9	1308.6	1285.2	1252.5
77.5°	3435.0	1793.5	653.1	684.7	706.9	889.1	1306.3	1294.6	1195.3	1146.2	1134.5
80°	1324.9	785.2	551.5	608.7	622.7	770.0	1145.0	1134.5	1051.5	988.5	970.9
82.5°	500.1	411.3	455.7	526.9	522.3	635.6	969.8	963.9	883.3	791.0	763.0
85°	231.3	246.5	361.0	434.6	400.8	470.9	775.8	786.3	688.2	578.3	578.3
87.5°	98.1	137.9	255.9	328.3	269.9	317.8	569.0	543.3	498.9	345.8	324.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)