

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: P321408

Luminaire Tested: **GLEON-SA4C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16930 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

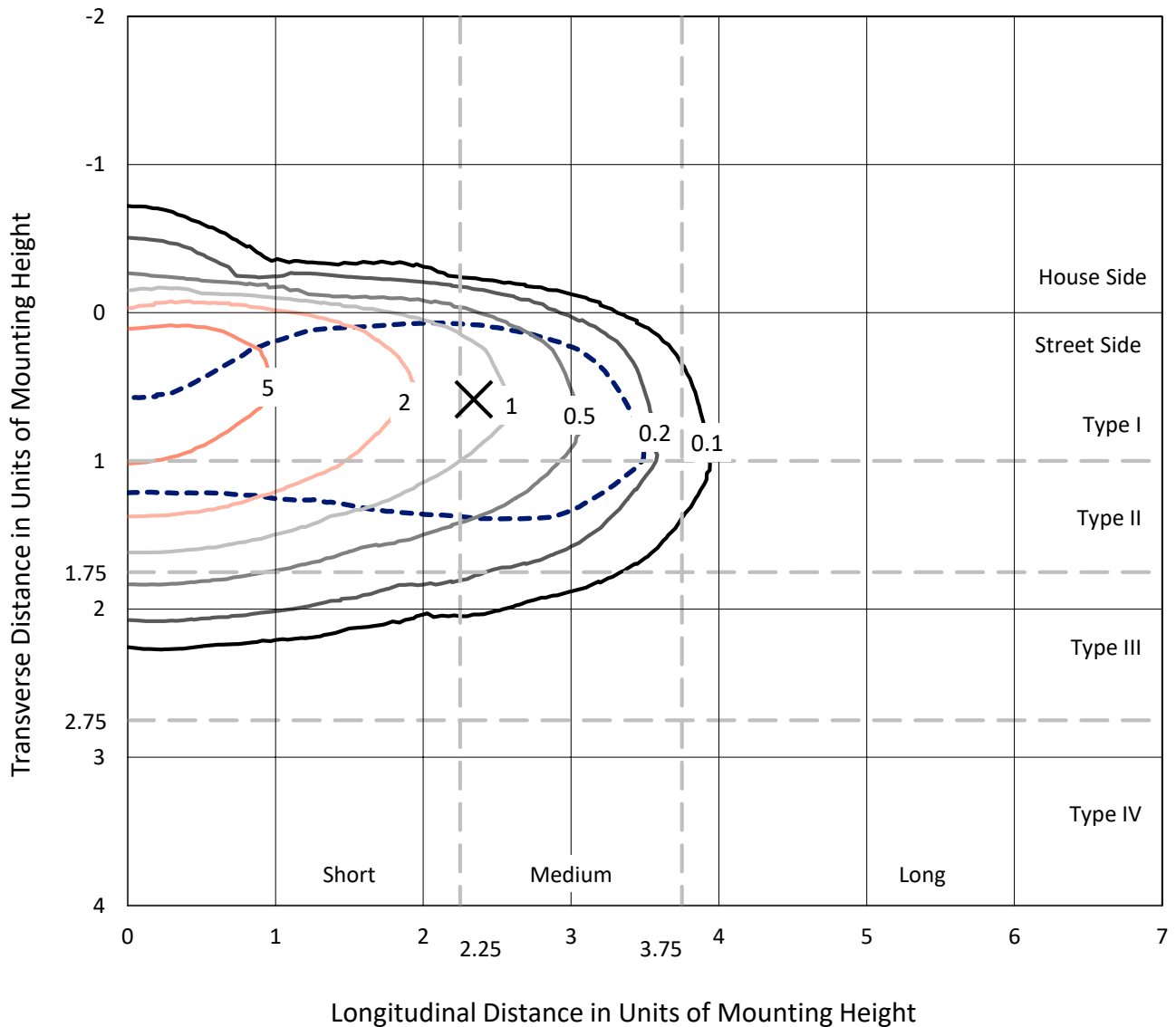
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

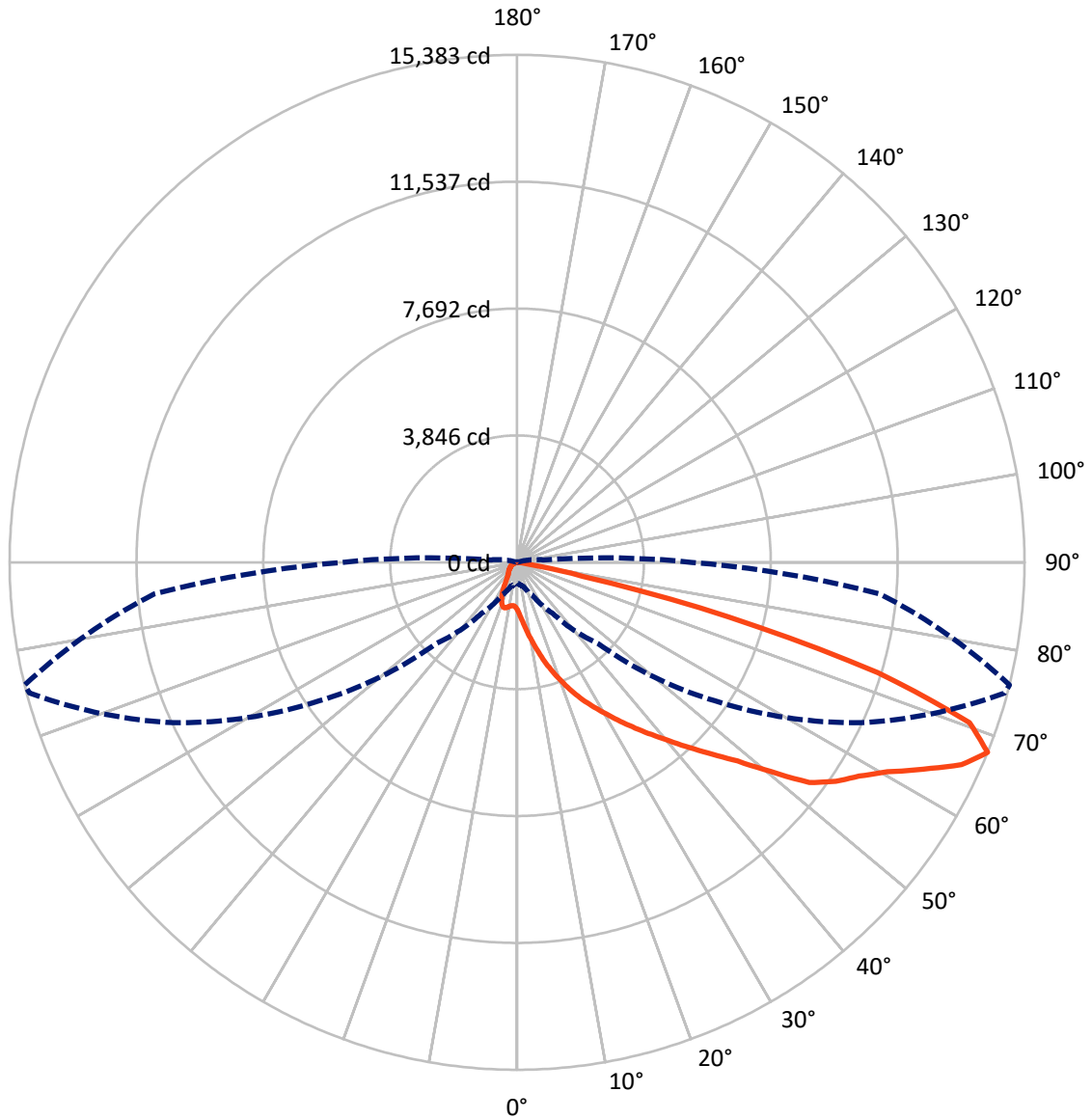
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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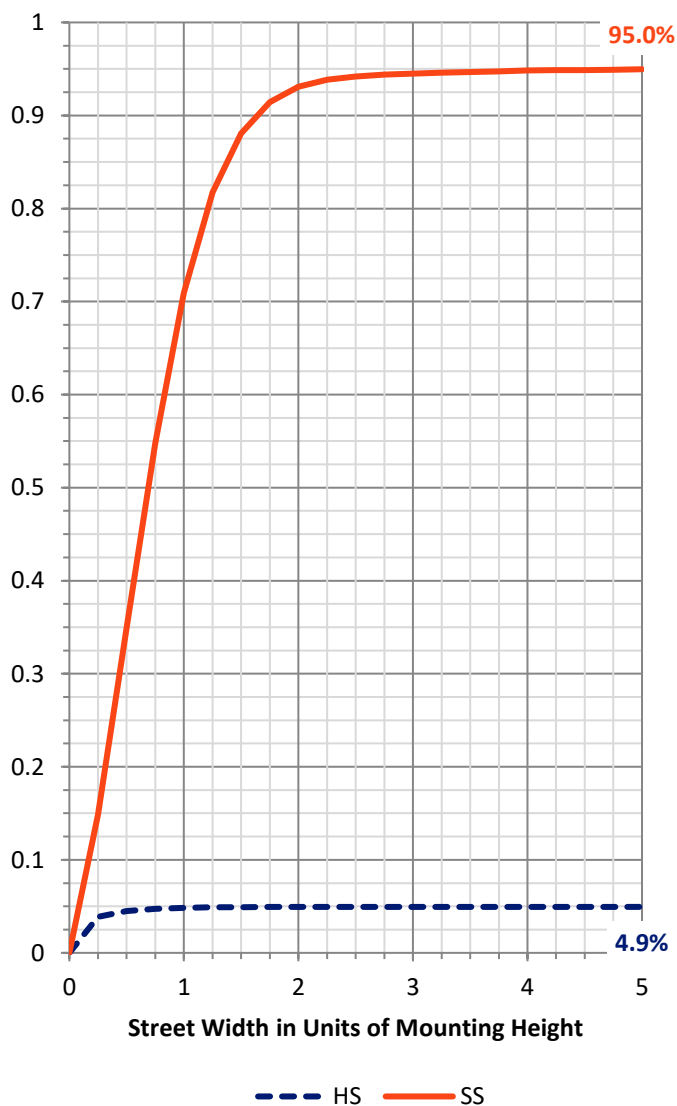
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.7	0.0	840.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16089.3	0.0	16089.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	16930.0	0.0	16930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	1.1
10°-20°	707.9	4.2
20°-30°	1440.4	8.5
30°-40°	2500.1	14.8
40°-50°	3532.3	20.9
50°-60°	4005.8	23.7
60°-70°	3322.4	19.6
70°-80°	1203.5	7.1
80°-90°	39.0	0.2
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°	16930.0	100.0
0°-180°	16930.0	100.0

Coefficient of Utilization



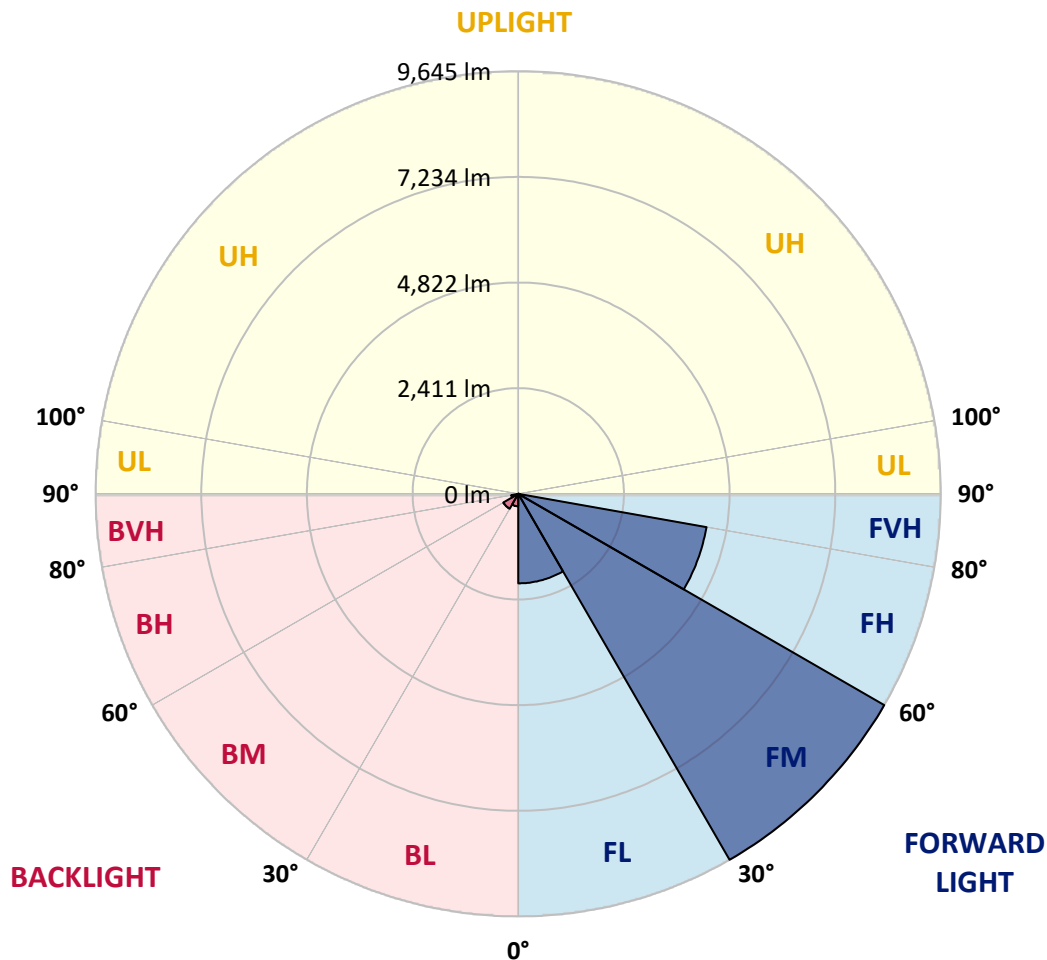
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2043.4	12.1			
FM (30°-60°)	9644.7	57.0			
FH (60°-80°)	4363.4	25.8			G2/5000
FVH (80°-90°)	37.8	0.2			G1/100
BL (0°-30°)	283.5	1.7	B1/500		
BM (30°-60°)	393.5	2.3	B1/1000		
BH (60°-80°)	162.5	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	2143.8	2095.6	2106.8	2075.6	2019.2	1903.5	1804.8	1711.4	1602.3	1598.6	1508.9
5°	2890.9	2850.1	2844.9	2781.8	2679.4	2482.9	2291.5	2073.4	1830.1	1812.3	1621.6
7.5°	3568.9	3536.2	3524.4	3449.4	3258.8	3067.4	2818.2	2497.7	2117.1	2084.5	1773.7
10°	4089.6	4074.0	4077.0	4023.6	3860.4	3682.4	3355.2	2946.5	2442.8	2392.4	1956.2
12.5°	4484.3	4488.0	4514.7	4482.0	4390.8	4258.8	3909.4	3425.0	2803.3	2734.3	2164.6
15°	4774.3	4792.9	4841.8	4882.6	4876.0	4761.7	4441.2	3910.9	3186.1	3109.7	2396.8
17.5°	4962.0	4982.8	5054.0	5144.5	5227.6	5200.9	4954.6	4379.7	3573.3	3485.0	2645.3
20°	5126.7	5151.2	5227.6	5347.0	5502.0	5535.4	5373.7	4834.4	3959.8	3852.2	2902.0
22.5°	5483.5	5482.8	5529.5	5599.2	5746.8	5832.9	5730.5	5256.5	4341.8	4229.8	3163.8
25°	6128.9	6104.4	6088.1	6033.2	6065.8	6119.2	6062.1	5651.1	4726.1	4612.6	3429.4
27.5°	6895.9	6910.8	6778.7	6631.1	6516.8	6462.0	6368.5	6016.9	5095.5	4970.9	3689.0
30°	7705.2	7709.7	7553.9	7365.5	7114.0	6905.6	6743.8	6366.3	5475.3	5339.6	3941.3
32.5°	8435.2	8406.3	8252.0	7995.3	7677.8	7443.4	7107.3	6756.5	5877.4	5746.1	4221.7
35°	9013.8	8979.7	8792.0	8558.3	8229.0	7993.1	7588.8	7145.9	6300.2	6171.9	4502.8
37.5°	9436.6	9396.6	9203.7	8963.4	8679.2	8542.0	8147.4	7569.5	6761.6	6623.7	4798.8
40°	9583.5	9548.6	9427.7	9251.9	9023.4	8992.3	8740.1	8056.9	7263.9	7117.0	5134.1
42.5°	9496.0	9461.9	9418.8	9359.5	9264.5	9294.2	9299.4	8612.5	7821.7	7677.0	5504.3
45°	9148.8	9118.4	9162.9	9249.7	9367.6	9514.5	9809.8	9209.6	8444.8	8290.5	5932.3
47.5°	8637.7	8615.4	8738.6	8955.2	9300.1	9705.2	10276.4	9837.2	9144.4	9001.2	6466.4
50°	7910.7	7907.0	8153.3	8548.7	9079.1	9797.2	10758.5	10550.8	10116.1	9965.5	7209.0
52.5°	6778.7	6786.1	7270.5	7903.3	8691.1	9734.8	11068.6	11467.7	11246.7	11090.1	7852.1
55°	5700.9	5745.4	6088.8	7001.3	8096.2	9503.4	11175.4	11895.7	11870.5	11722.2	8209.7
57.5°	4645.2	4726.1	5057.0	5909.3	7227.5	8970.0	11116.8	12081.2	12334.9	12221.4	8681.5
60°	3501.4	3538.5	3919.8	4716.5	6112.6	7996.8	10691.8	12182.1	12969.9	12891.3	9366.2
62.5°	2227.7	2320.4	2658.7	3427.2	4759.5	6645.2	9975.2	12180.6	13764.4	13807.4	10249.7
65°	1173.6	1281.9	1461.4	2123.8	3270.7	5135.6	8897.3	12066.4	14739.1	14799.2	10940.3
67.5°	632.8	663.9	758.9	1102.3	1896.8	3479.1	7313.6	11502.6	15303.6	15383.0	11036.7
70°	462.9	480.0	515.6	609.8	954.7	2020.7	5336.6	10224.4	14575.9	14546.3	9806.1
72.5°	355.3	382.0	408.7	446.6	548.9	1078.6	3322.6	8006.4	11630.2	11434.3	7329.9
75°	280.4	284.9	322.7	356.8	411.7	614.2	1475.5	4663.1	7098.4	6634.8	3801.1
77.5°	224.0	227.0	249.2	278.9	330.8	403.5	457.0	1834.5	2266.2	2022.2	824.9
80°	132.8	140.2	185.5	215.1	274.5	254.4	166.9	398.4	353.8	320.5	138.7
82.5°	74.2	80.1	104.6	169.9	191.4	121.7	83.1	107.6	83.1	80.9	39.3
85°	0.0	3.7	67.5	105.3	77.9	26.7	34.9	35.6	24.5	23.0	15.6
87.5°	0.0	0.0	20.8	20.0	3.0	4.5	8.2	11.9	9.6	9.6	8.2
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°	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	1464.3	1424.3	1348.6	1274.4	1212.1	1160.9	1114.9	1096.4	1081.6	1079.3	1067.5
5°	1529.6	1448.8	1304.1	1185.4	1106.0	1049.7	1001.5	971.8	948.8	939.9	931.7
7.5°	1628.3	1505.9	1298.2	1161.7	1066.7	971.8	882.8	786.3	726.2	703.2	689.9
10°	1748.5	1581.6	1320.4	1155.0	988.8	788.5	640.9	518.5	468.8	452.5	448.1
12.5°	1888.7	1675.8	1359.0	1113.5	822.7	560.1	442.1	400.6	389.5	384.3	384.3
15°	2049.6	1778.9	1386.5	993.3	608.3	423.6	382.8	363.5	351.6	344.9	345.7
17.5°	2214.3	1879.8	1373.1	819.0	448.8	376.8	346.4	325.7	309.3	302.7	301.2
20°	2380.5	1973.2	1298.9	609.8	379.8	342.0	307.9	284.9	268.5	261.9	260.4
22.5°	2552.6	2052.6	1168.4	447.3	341.2	303.4	270.0	247.0	231.4	225.5	222.5
25°	2720.2	2117.1	985.9	362.0	304.9	267.1	235.2	213.6	199.5	193.6	192.9
27.5°	2876.8	2157.9	774.5	319.7	273.0	234.4	205.5	186.2	174.3	169.9	169.1
30°	3017.7	2161.6	572.7	288.6	244.8	206.2	179.5	162.5	152.1	147.6	146.1
32.5°	3160.1	2130.5	416.9	260.4	218.8	181.7	155.8	142.4	135.0	131.3	131.3
35°	3294.4	2058.5	324.9	235.9	193.6	158.0	137.2	127.6	123.1	119.4	119.4
37.5°	3425.7	1955.4	276.0	214.4	169.9	138.0	120.9	115.0	111.3	107.6	107.6
40°	3559.2	1825.6	250.7	194.4	150.6	122.4	107.6	102.4	98.7	95.7	95.0
42.5°	3723.2	1675.8	234.4	175.8	133.5	108.3	95.0	89.0	86.1	83.1	81.6
45°	3913.1	1546.7	221.1	157.3	119.4	96.4	82.3	76.4	72.0	68.2	67.5
47.5°	4186.8	1453.2	203.3	137.2	106.1	83.8	71.2	64.5	57.9	54.2	53.4
50°	4536.2	1376.1	180.3	119.4	92.7	71.2	59.3	51.2	45.3	41.5	41.5
52.5°	4709.8	1275.2	159.5	103.9	77.9	60.1	48.2	38.6	35.6	31.9	31.9
55°	4779.5	1198.0	138.7	88.3	64.5	49.7	37.8	29.7	27.4	25.2	24.5
57.5°	4975.4	1175.8	120.9	74.9	53.4	39.3	28.9	22.3	20.8	17.8	17.8
60°	5290.6	1186.9	104.6	63.8	43.0	30.4	21.5	17.1	15.6	12.6	12.6
62.5°	5631.1	1172.8	88.3	54.9	33.4	22.3	14.8	12.6	12.6	7.4	6.7
65°	5696.4	1044.5	75.7	45.3	26.0	16.3	9.6	8.2	11.1	1.5	0.0
67.5°	5286.9	810.1	65.3	34.9	19.3	12.6	7.4	3.7	9.6	0.0	0.0
70°	4227.6	514.8	52.7	25.2	14.8	10.4	5.9	1.5	7.4	0.0	0.0
72.5°	2989.5	299.0	41.5	17.8	12.6	8.2	4.5	0.0	4.5	0.0	0.0
75°	1511.8	159.5	26.0	13.4	9.6	5.9	3.0	0.0	0.7	0.0	0.0
77.5°	327.1	74.2	16.3	9.6	6.7	3.7	1.5	0.0	0.0	0.0	0.0
80°	71.2	32.6	10.4	5.9	3.7	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	17.1	5.2	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)