

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: P383390

Luminaire Tested: **GLEON-SA7A-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26233.3 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

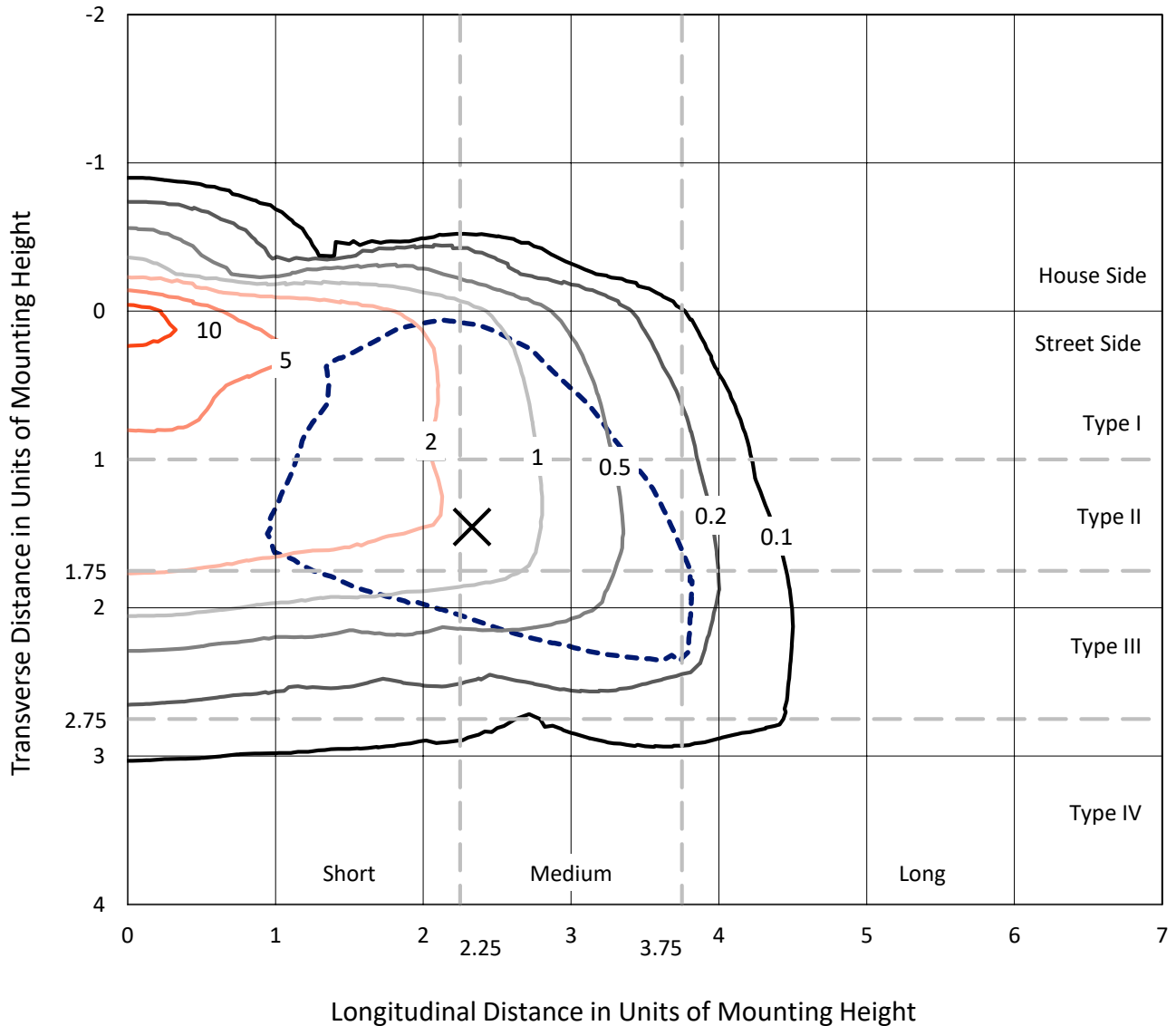
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

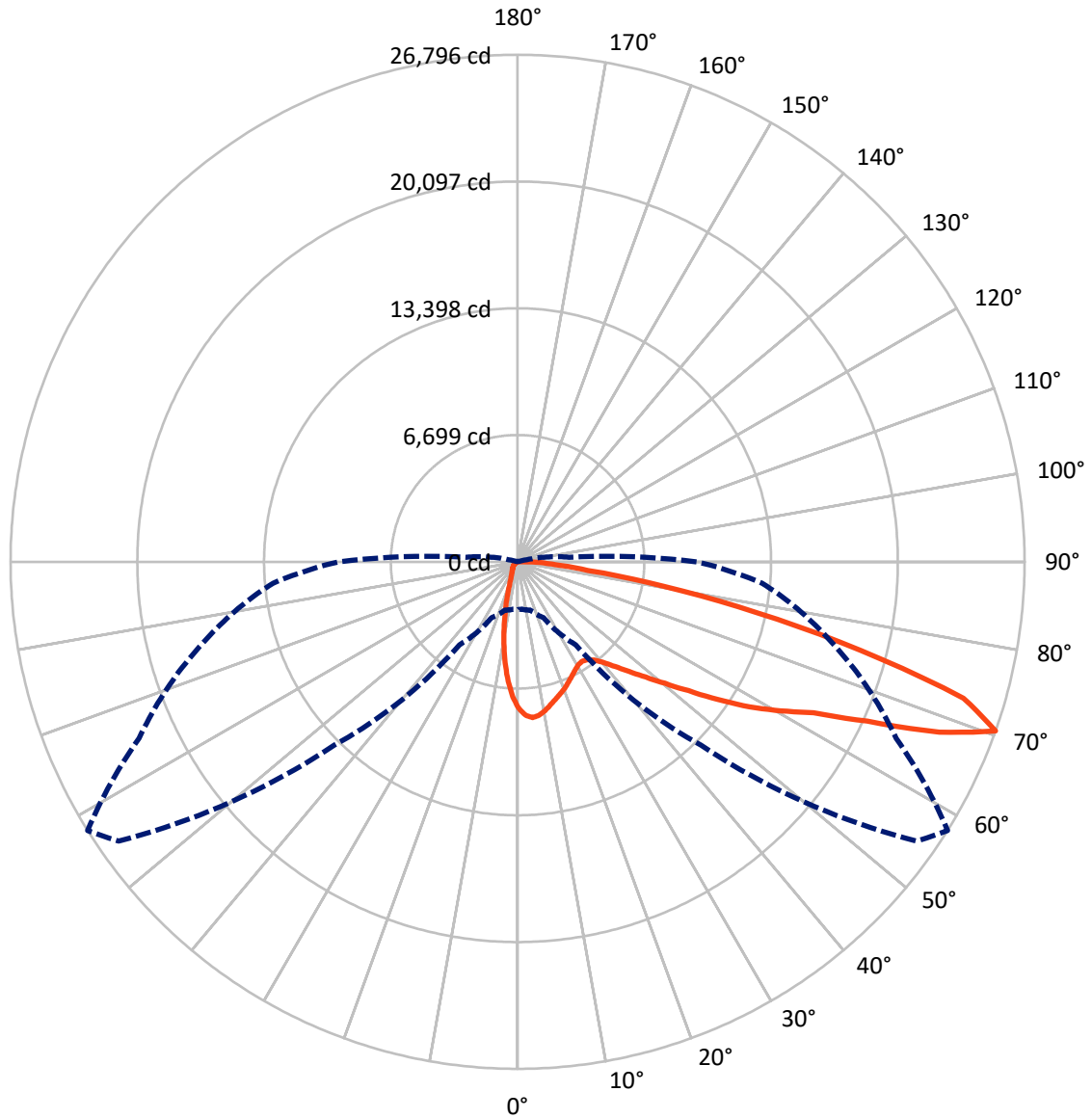
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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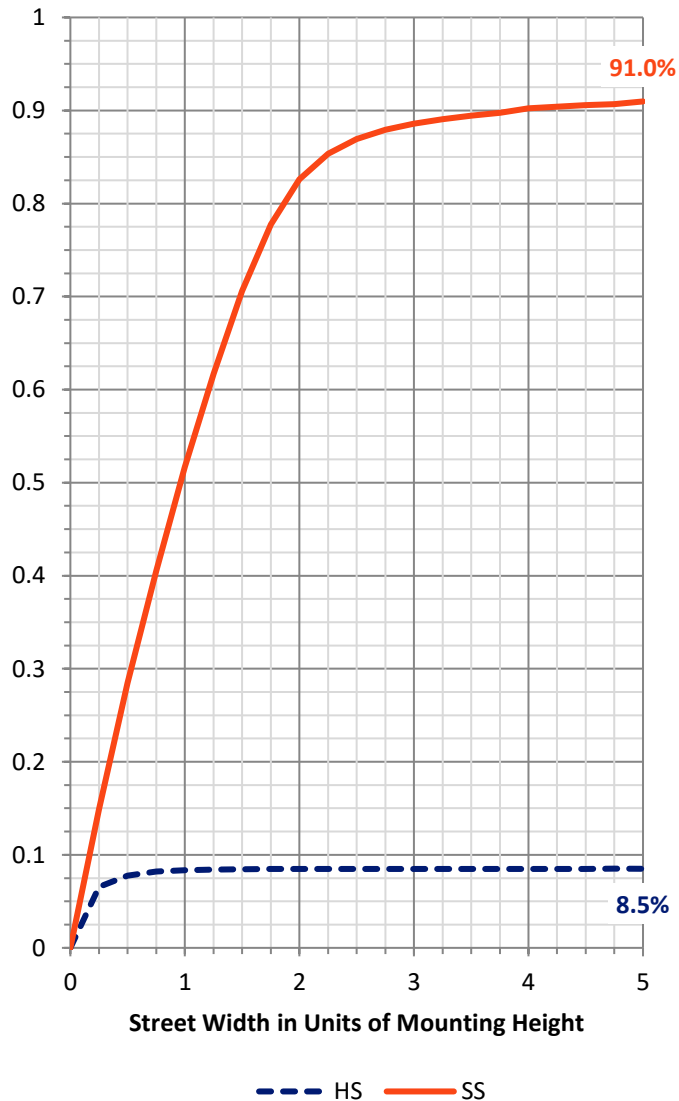
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2245.0	0.0	2245.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	23988.3	0.0	23988.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	26233.3	0.0	26233.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.7	2.4
10°-20°	1330.0	5.1
20°-30°	1748.4	6.7
30°-40°	2315.6	8.8
40°-50°	3461.1	13.2
50°-60°	5544.6	21.1
60°-70°	6988.9	26.6
70°-80°	3769.8	14.4
80°-90°	441.3	1.7
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°	26233.3	100.0
0°-180°	26233.3	100.0

Coefficient of Utilization

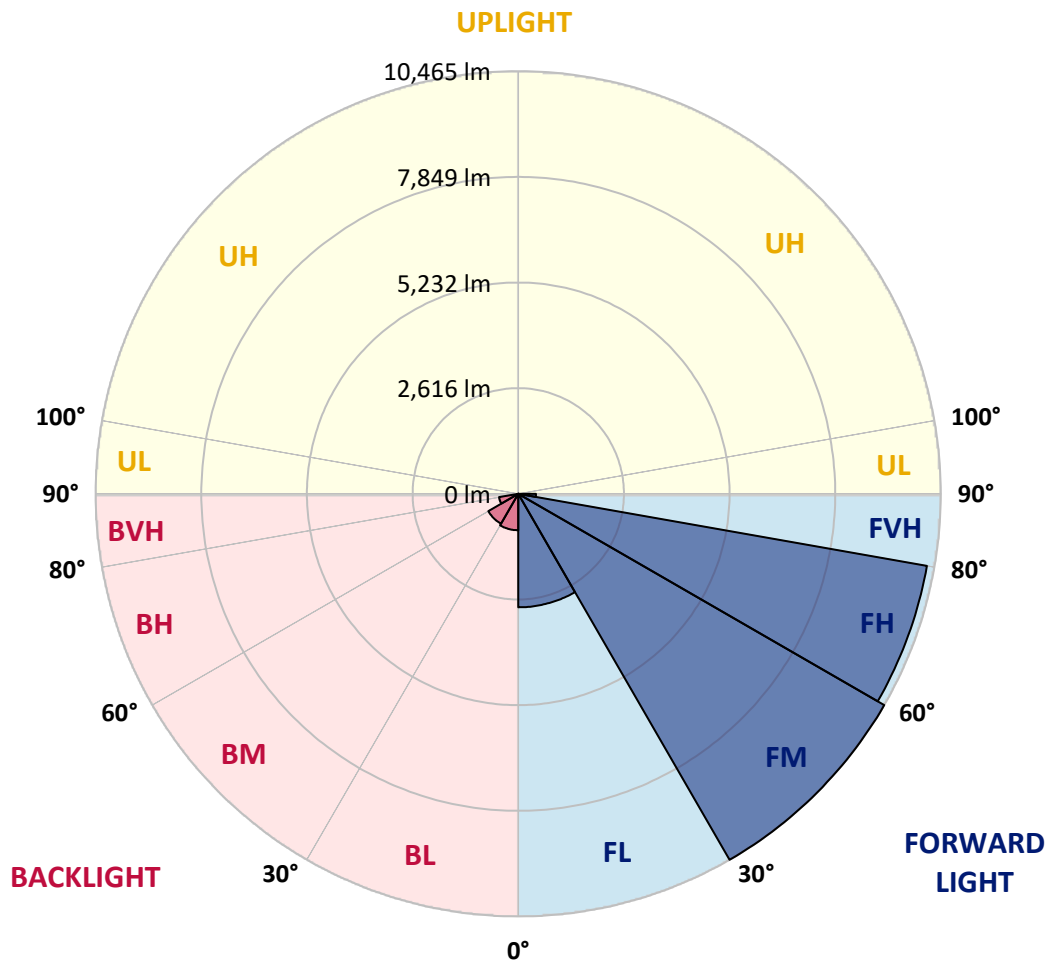


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2810.1	10.7			
FM	(30°-60°)	10464.9	39.9			
FH	(60°-80°)	10275.9	39.2			G4/12000
FVH	(80°-90°)	437.5	1.7			G3/500
BL	(0°-30°)	901.9	3.4	B2/1000		
BM	(30°-60°)	856.4	3.3	B1/1000		
BH	(60°-80°)	482.8	1.8	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2
2.5°	8391.7	8371.0	8363.3	8350.2	8300.1	8251.0	8153.9	8126.6	8065.5	7920.5	7766.7
5°	8398.3	8397.2	8420.1	8414.6	8397.2	8374.2	8304.5	8268.4	8164.8	7957.6	7676.1
7.5°	7993.5	8014.3	8065.5	8107.0	8155.0	8217.2	8225.8	8191.0	8105.9	7882.3	7509.2
10°	7450.3	7483.0	7555.0	7636.8	7762.3	7886.7	7997.9	7993.5	7964.1	7743.8	7308.5
12.5°	6906.0	6944.1	7027.0	7148.1	7326.0	7528.9	7727.4	7754.7	7803.8	7619.4	7123.1
15°	6429.3	6462.1	6543.8	6692.1	6912.5	7185.2	7476.5	7526.6	7653.2	7522.3	6968.2
17.5°	6024.6	6045.4	6105.4	6270.1	6525.3	6855.8	7234.3	7332.5	7521.2	7446.0	6834.0
20°	5742.1	5745.3	5784.6	5900.2	6155.5	6525.3	6983.4	7124.2	7381.6	7380.5	6695.5
22.5°	5602.4	5591.5	5599.2	5665.8	5853.4	6210.1	6732.6	6899.4	7256.1	7324.9	6554.7
25°	5576.2	5567.6	5545.8	5554.4	5667.9	5934.1	6479.5	6672.6	7146.0	7291.0	6432.6
27.5°	5658.1	5666.8	5629.7	5590.5	5599.2	5755.2	6254.8	6478.4	7056.6	7291.0	6346.4
30°	5822.8	5827.2	5799.9	5748.7	5679.9	5705.0	6098.7	6322.4	7011.8	7341.2	6291.9
32.5°	6004.9	6029.0	6025.7	5984.3	5886.1	5784.6	6061.7	6265.7	7008.5	7452.5	6286.4
35°	6230.7	6258.0	6303.9	6295.1	6192.6	6025.7	6188.3	6348.6	7072.9	7635.7	6345.3
37.5°	6470.7	6512.2	6610.4	6657.3	6590.7	6402.1	6471.8	6586.4	7245.2	7932.5	6494.7
40°	6703.1	6750.0	6928.9	7113.2	7063.1	6868.9	6901.6	6993.2	7551.8	8359.0	6778.4
42.5°	6931.1	7000.9	7263.7	7567.1	7627.0	7472.1	7489.5	7562.7	8006.7	8945.8	7241.9
45°	7203.8	7282.3	7671.8	8045.9	8206.3	8138.7	8212.8	8260.8	8601.2	9721.4	7867.0
47.5°	7604.1	7694.7	8172.5	8598.9	8880.4	8924.0	9073.5	9105.1	9352.7	10624.6	8681.8
50°	8385.1	8410.2	8842.2	9229.4	9635.2	9897.0	10067.2	10091.2	10262.5	11611.8	9699.6
52.5°	9368.0	9384.3	9628.7	9888.3	10349.7	10884.2	11282.3	11316.2	11352.2	12573.9	10704.2
55°	10344.3	10342.0	10503.5	10656.3	11184.2	11960.9	12824.8	12845.5	12587.0	13486.9	11472.2
57.5°	10954.1	11012.9	11258.4	11454.7	12192.1	13188.0	14386.8	14463.2	13884.0	14163.2	12231.4
60°	10759.8	10788.3	11332.6	12059.1	13447.6	14932.2	15967.5	15987.1	14859.2	14838.4	13191.3
62.5°	9167.3	9182.5	10037.7	11535.4	14083.6	17194.6	17874.2	17554.5	15980.5	15775.5	14340.0
65°	6283.1	6382.4	7096.9	8948.0	12915.3	18613.8	20826.0	20296.9	17689.8	17125.9	15378.4
67.5°	3700.1	3679.3	4032.8	5396.3	9485.8	17671.3	24559.9	24034.1	20020.9	18030.2	15074.0
70°	2527.5	2513.2	2648.5	3267.0	5354.8	13708.4	25734.7	26796.1	22079.4	17421.5	12973.1
72.5°	1804.2	1811.9	2011.5	2538.4	3362.0	7987.0	22130.6	24642.8	21434.6	15187.5	9861.0
75°	1225.0	1245.8	1531.6	2082.4	2947.4	4063.3	15704.6	18732.7	17454.2	11038.0	5667.9
77.5°	658.9	681.8	1018.8	1677.7	2664.9	2823.1	10102.1	12892.4	10963.8	4962.2	1642.8
80°	274.9	287.9	476.7	1219.6	2302.7	2479.4	5943.9	7817.9	4672.0	978.5	366.5
82.5°	118.9	125.5	198.5	727.5	1721.3	2093.3	3147.0	3761.1	1415.9	214.9	184.4
85°	22.9	24.0	81.8	385.1	1098.5	1181.4	2039.8	1999.5	636.0	92.7	134.1
87.5°	0.0	0.0	19.7	121.1	322.9	643.6	1244.6	1229.4	216.0	44.7	50.2
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°	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2	7749.2
2.5°	7688.2	7612.9	7454.7	7259.5	7109.9	6945.2	6814.4	6648.5	6576.5	6579.8	6540.6
5°	7515.7	7360.9	7010.7	6568.9	6228.6	5877.3	5575.2	5274.1	5096.3	5038.5	4984.0
7.5°	7269.2	7023.8	6465.3	5784.6	5208.7	4645.8	4156.0	3725.2	3452.4	3319.4	3270.3
10°	6991.1	6646.4	5838.1	4941.4	4118.9	3357.6	2722.7	2170.7	1950.4	1801.0	1762.8
12.5°	6746.7	6279.8	5225.1	4076.4	3100.1	2181.7	1576.3	1232.6	1083.2	1024.2	1014.5
15°	6516.5	5937.3	4634.9	3293.2	2146.8	1342.8	1002.4	885.7	850.9	841.0	841.0
17.5°	6299.5	5611.2	4057.8	2522.0	1420.2	941.4	830.1	803.9	793.0	791.9	793.0
20°	6072.6	5285.0	3490.6	1847.8	991.5	797.4	766.8	752.7	749.4	749.4	749.4
22.5°	5855.5	4958.9	2938.7	1319.9	795.2	727.5	712.3	702.5	699.2	698.1	696.0
25°	5647.2	4649.1	2399.9	932.7	698.1	666.5	653.4	640.3	630.5	625.1	621.8
27.5°	5475.9	4373.1	1898.0	748.3	630.5	603.3	586.9	567.2	543.2	532.3	528.0
30°	5339.5	4121.2	1462.8	631.6	567.2	539.9	514.9	481.1	446.1	427.6	426.6
32.5°	5232.7	3873.5	1110.5	558.5	510.5	476.7	440.7	398.1	357.8	337.0	336.0
35°	5180.3	3655.3	848.6	505.1	460.4	417.8	373.1	326.1	286.9	267.3	265.0
37.5°	5215.2	3471.0	662.1	460.4	417.8	368.7	316.4	267.3	232.3	214.9	213.8
40°	5342.8	3353.2	537.8	422.2	381.7	321.8	265.0	219.3	189.8	175.6	174.6
42.5°	5614.4	3309.5	459.3	390.5	346.9	278.2	220.3	181.1	153.8	144.0	141.8
45°	6068.2	3373.9	405.8	359.9	310.9	236.7	182.2	148.4	124.4	116.7	115.6
47.5°	6672.6	3543.0	367.6	330.5	278.2	199.6	151.7	120.0	101.4	93.8	92.7
50°	7451.4	3811.3	336.0	301.1	247.6	169.1	125.5	94.9	78.5	73.1	73.1
52.5°	8299.0	4130.9	307.6	273.8	217.1	140.8	101.4	73.1	62.1	55.6	55.6
55°	8999.3	4410.2	277.0	253.1	180.0	116.7	77.4	55.6	45.8	42.6	42.6
57.5°	9698.5	4707.9	242.2	217.1	144.0	94.9	58.9	41.5	33.8	31.7	31.7
60°	10604.9	5072.3	208.4	176.7	113.5	72.0	43.6	29.4	25.1	24.0	24.0
62.5°	11602.0	5286.2	177.8	141.8	88.3	53.5	31.7	19.7	18.5	18.5	17.4
65°	12211.8	4984.0	149.4	113.5	68.7	40.3	20.7	14.2	16.4	15.3	13.1
67.5°	11434.0	3901.9	122.1	88.3	53.5	30.6	13.1	9.8	17.4	14.2	10.9
70°	9467.2	2731.4	94.9	62.1	42.6	26.2	8.8	6.5	18.5	14.2	8.8
72.5°	7084.9	1828.3	75.3	41.5	31.7	22.9	7.6	3.3	16.4	12.0	7.6
75°	3871.3	736.3	60.0	26.2	19.7	16.4	5.5	2.1	10.9	8.8	5.5
77.5°	1018.8	194.1	43.6	17.4	10.9	6.5	3.3	1.1	5.5	4.4	2.1
80°	259.6	75.3	28.3	12.0	7.6	3.3	0.0	0.0	1.1	0.0	0.0
82.5°	138.5	31.7	17.4	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	104.7	20.7	9.8	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	40.3	6.5	3.3	0.0	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)