

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: P383588

Luminaire Tested: **GLEON-SA8D-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47016.1 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

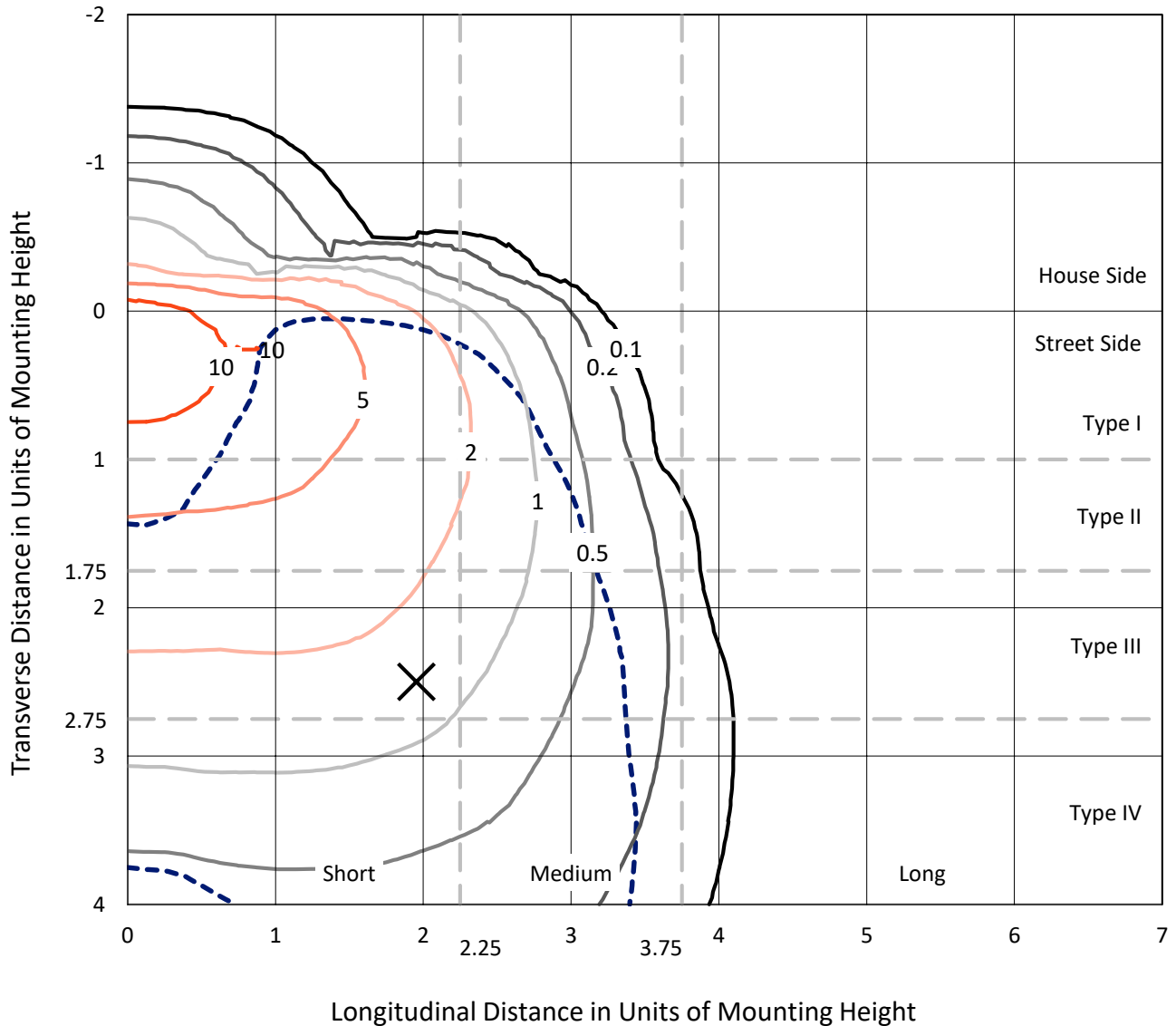
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

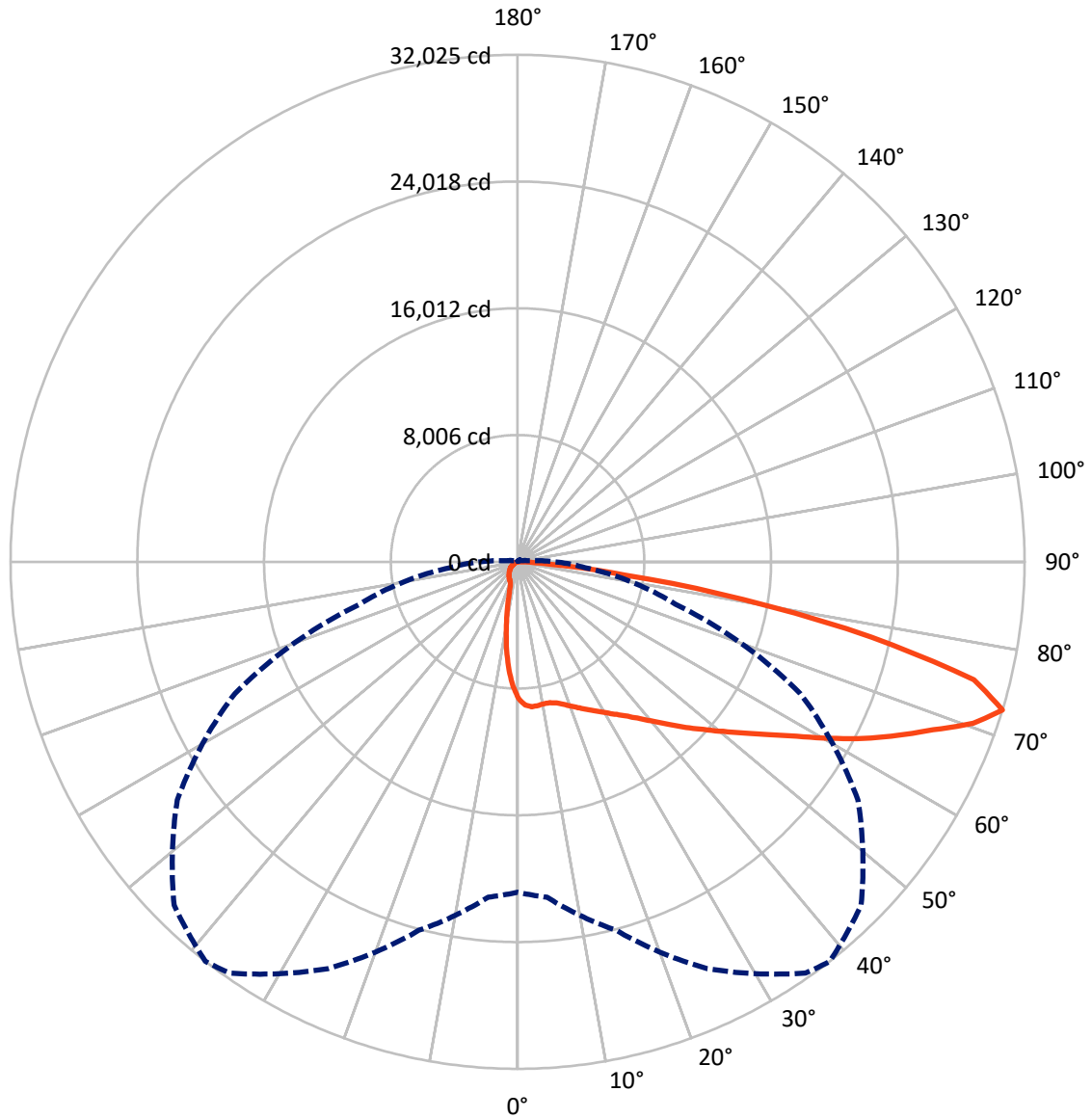
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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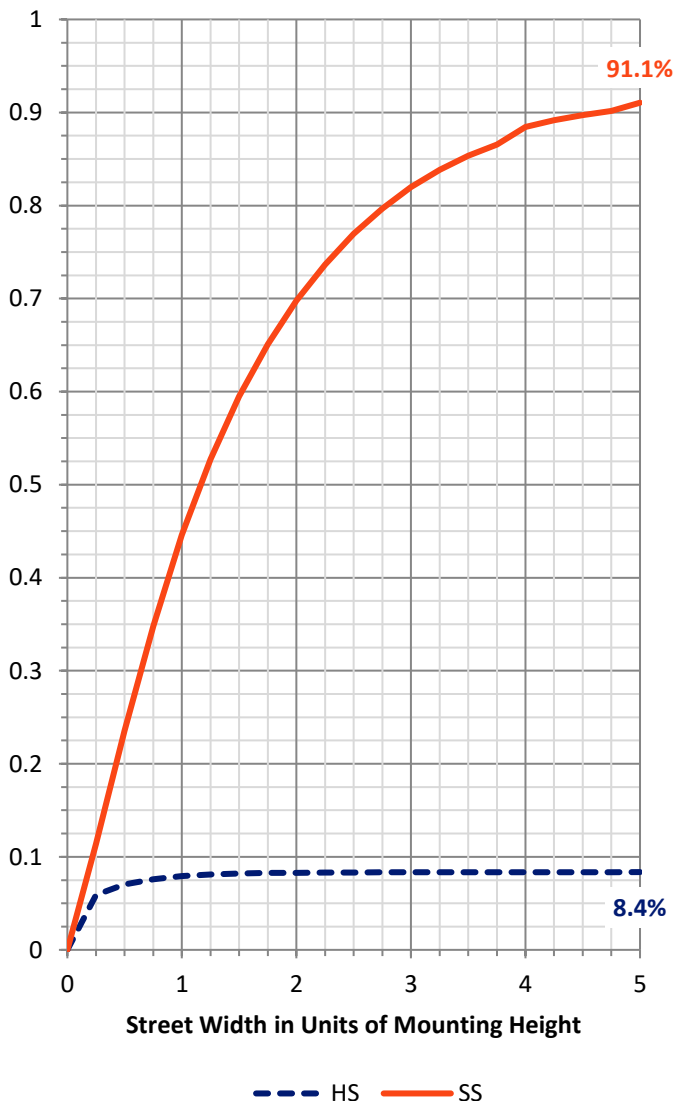
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3956.6	0.0	3956.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	43059.6	0.0	43059.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	47016.1	0.0	47016.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.8	1.6
10°-20°	1801.7	3.8
20°-30°	2865.5	6.1
30°-40°	4308.0	9.2
40°-50°	6572.2	14.0
50°-60°	9288.7	19.8
60°-70°	11651.2	24.8
70°-80°	8711.8	18.5
80°-90°	1080.2	2.3
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°	47016.1	100.0
0°-180°	47016.1	100.0

Coefficient of Utilization



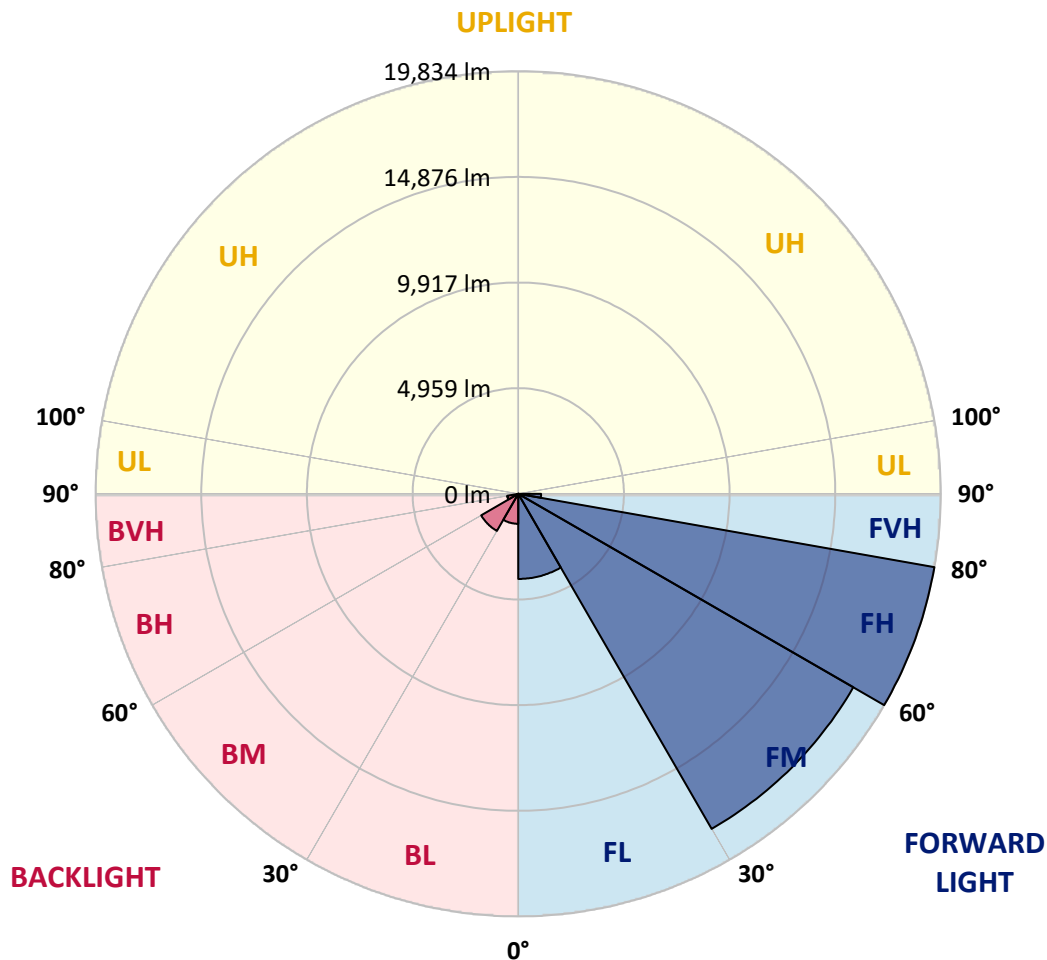
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3995.2	8.5			
FM (30°-60°)	18159.7	38.6			
FH (60°-80°)	19834.4	42.2			G5
FVH (80°-90°)	1070.2	2.3			G5
BL (0°-30°)	1408.8	3.0	B3/2500		
BM (30°-60°)	2009.2	4.3	B2/2500		
BH (60°-80°)	528.5	1.1	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2
2.5°	9177.2	9179.2	9157.7	9122.6	9077.7	9054.2	9015.1	8952.6	8886.3	8767.2	8638.3
5°	9364.7	9364.7	9337.4	9290.5	9218.2	9196.7	9122.6	9023.0	8886.3	8693.0	8476.2
7.5°	9345.1	9349.0	9311.9	9263.1	9190.9	9171.4	9081.6	8970.2	8800.3	8566.0	8288.8
10°	9243.7	9253.3	9224.1	9200.6	9134.3	9112.8	9028.8	8917.5	8747.6	8497.7	8179.5
12.5°	9140.2	9149.8	9159.6	9181.1	9140.2	9132.3	9065.9	8972.2	8810.1	8550.4	8191.2
15°	9073.7	9093.3	9163.5	9247.5	9257.3	9249.4	9206.5	9118.6	8954.6	8685.2	8275.1
17.5°	9073.7	9104.9	9251.4	9411.5	9468.2	9474.0	9436.9	9313.9	9118.6	8829.7	8353.2
20°	9149.8	9192.9	9421.3	9647.8	9741.6	9741.6	9669.3	9497.4	9269.0	8960.5	8405.9
22.5°	9345.1	9401.7	9688.8	9950.4	10050.0	10028.6	9930.9	9681.0	9425.2	9108.9	8472.3
25°	9729.8	9772.8	10071.5	10335.1	10395.6	10346.8	10223.8	9903.6	9624.4	9310.0	8593.4
27.5°	10225.8	10231.7	10540.1	10762.7	10725.7	10692.4	10538.2	10182.8	9911.4	9597.0	8802.3
30°	10770.6	10770.6	11041.9	11211.8	11098.6	11071.3	10917.0	10520.6	10278.5	9987.6	9099.1
32.5°	11297.7	11321.2	11541.8	11649.2	11522.3	11494.9	11344.6	10948.2	10766.6	10583.1	9561.9
35°	11807.4	11825.0	12033.9	12092.4	11971.4	11979.2	11871.8	11536.0	11467.6	11444.2	10258.9
37.5°	12301.4	12305.3	12518.1	12555.2	12494.7	12561.1	12570.9	12274.1	12400.9	12590.3	11241.1
40°	12752.4	12756.3	12967.2	13062.9	13166.4	13252.3	13328.5	13170.3	13590.1	14029.4	12410.7
42.5°	13113.7	13154.7	13422.2	13603.8	13877.2	14041.1	14248.1	14240.3	15005.7	15665.7	13824.4
45°	13431.9	13502.2	13875.2	14193.4	14662.1	14923.8	15247.9	15501.7	16599.1	17487.5	15255.7
47.5°	13851.7	13918.2	14343.8	14865.2	15490.0	15833.6	16370.6	16919.2	18350.6	19276.0	16653.7
50°	14443.4	14414.1	14833.9	15581.7	16384.2	16835.3	17600.8	18422.8	20088.4	20834.2	17475.7
52.5°	15074.1	15062.4	15372.9	16360.9	17438.7	17965.8	18977.3	19977.0	21750.1	21908.1	17852.6
55°	15855.1	15771.2	16032.8	17249.3	18690.3	19256.6	20447.7	21515.7	23073.9	22513.5	18042.0
57.5°	16673.2	16534.6	16784.5	18239.2	20102.1	20771.7	22076.1	23015.3	23954.5	22927.4	18040.1
60°	17518.7	17354.7	17651.5	19477.2	21855.4	22630.6	23841.3	24028.7	24776.6	23136.4	17907.3
62.5°	18225.5	18127.9	18569.2	20801.1	23813.9	24575.4	25174.9	24950.3	25469.7	23298.4	17596.8
65°	18973.4	18979.3	19692.0	22345.6	25895.3	26408.9	26459.7	26145.3	26049.6	23265.2	16546.3
67.5°	19984.9	20078.6	21267.7	24442.7	27920.3	28316.6	28312.7	27439.9	26473.4	21945.3	14216.9
70°	21054.9	21275.5	23083.7	26842.4	30130.5	30532.8	30325.8	28263.9	24926.9	17745.2	10061.7
72.5°	20875.2	21257.9	24093.2	28355.7	31718.1	32024.6	30679.2	26239.0	19701.8	10313.6	4284.0
75°	16105.1	16548.3	22091.7	26856.1	30052.5	29777.1	26360.1	20418.3	10766.6	2878.1	964.6
77.5°	8507.5	8743.8	14593.7	20459.3	23433.2	22857.1	18569.2	11327.1	3282.3	712.7	433.4
80°	4455.9	4510.5	6359.6	11608.2	14462.9	14466.8	11004.8	4975.2	1353.2	365.2	290.9
82.5°	2386.1	2432.9	3360.5	5363.8	7578.0	6869.2	4213.7	2737.5	786.9	207.0	279.2
85°	574.0	583.8	1905.8	2450.5	2979.6	2128.3	1251.6	2298.2	212.9	121.1	226.5
87.5°	220.7	224.5	706.9	1060.3	759.6	492.0	585.8	857.2	27.3	46.9	35.1
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°	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2	8646.2
2.5°	8560.2	8509.4	8384.5	8226.3	8085.7	7984.2	7831.9	7732.3	7665.9	7663.9	7638.6
5°	8343.5	8240.0	7970.5	7650.2	7359.3	7097.7	6789.2	6545.1	6363.5	6334.2	6271.7
7.5°	8111.1	7941.3	7527.3	7027.4	6539.3	6043.3	5467.3	5109.9	4803.4	4657.0	4641.3
10°	7968.6	7730.4	7142.6	6420.1	5654.8	4848.3	4094.6	3573.2	3196.4	3089.0	3009.0
12.5°	7939.3	7624.9	6845.9	5850.0	4756.6	3690.4	2856.7	2302.1	2001.4	1905.8	1880.3
15°	7968.6	7576.1	6595.9	5285.7	3846.6	2618.4	1917.5	1595.3	1482.0	1454.7	1452.7
17.5°	7986.2	7517.5	6312.7	4658.9	2964.1	1870.5	1468.4	1374.6	1357.1	1355.1	1359.0
20°	7984.2	7427.7	5974.9	3959.9	2204.5	1470.3	1327.7	1308.3	1304.4	1306.3	1304.4
22.5°	7970.5	7322.2	5604.0	3239.4	1665.6	1314.1	1267.3	1255.5	1253.6	1253.6	1253.6
25°	7995.9	7238.3	5195.9	2550.1	1372.6	1241.8	1212.6	1202.8	1200.9	1200.9	1196.9
27.5°	8087.7	7191.5	4748.8	1962.4	1239.9	1177.4	1154.0	1152.0	1146.2	1144.2	1148.1
30°	8236.1	7191.5	4258.7	1526.9	1159.9	1111.1	1093.5	1089.5	1087.6	1085.6	1087.6
32.5°	8497.7	7246.1	3723.6	1269.2	1083.7	1036.8	1025.1	1030.9	1025.1	1025.1	1025.1
35°	8970.2	7410.1	3163.3	1107.1	1003.6	964.6	952.9	960.7	956.8	956.8	954.8
37.5°	9659.5	7714.7	2598.9	1009.5	933.3	892.3	876.7	888.4	884.5	884.5	882.5
40°	10499.1	8157.9	2062.0	935.3	865.0	822.1	808.4	814.3	804.5	804.5	808.4
42.5°	11536.0	8720.3	1593.3	863.1	796.7	755.7	747.8	742.0	724.4	714.7	716.6
45°	12688.0	9306.1	1241.8	792.7	732.2	699.0	687.3	671.7	642.4	622.9	624.8
47.5°	13717.0	9757.1	1009.5	724.4	673.6	648.3	630.7	601.4	558.5	535.0	536.9
50°	14257.9	9825.5	859.2	656.1	619.0	593.6	568.2	523.3	472.6	447.1	445.2
52.5°	14396.5	9505.2	747.8	593.6	564.3	535.0	501.8	441.3	384.6	357.3	353.4
55°	14447.3	9017.1	648.3	535.0	505.7	472.6	429.5	361.3	308.5	281.1	279.2
57.5°	14279.3	8288.8	570.2	482.3	447.1	406.2	353.4	289.0	238.2	216.8	216.8
60°	13906.4	7302.7	509.6	425.6	386.6	339.7	285.1	224.5	177.6	160.1	160.1
62.5°	13162.5	6025.7	453.0	367.1	330.0	281.1	230.4	169.9	124.9	115.2	117.2
65°	11758.6	4571.0	396.4	314.4	281.1	232.3	179.6	121.1	83.9	83.9	87.8
67.5°	9589.3	3174.9	337.8	267.5	242.1	189.4	136.7	83.9	58.6	66.4	74.2
70°	6347.9	1780.7	289.0	220.7	207.0	150.4	101.5	56.6	46.9	62.5	76.1
72.5°	2395.8	693.2	242.1	177.6	179.6	115.2	72.3	42.9	42.9	68.4	89.8
75°	667.8	339.7	173.8	130.8	140.6	83.9	52.7	37.1	41.0	78.1	105.5
77.5°	392.5	249.9	113.3	76.1	95.7	58.6	35.1	29.3	35.1	66.4	101.5
80°	316.4	132.7	66.4	39.0	52.7	33.2	23.5	17.6	9.8	25.3	52.7
82.5°	316.4	80.0	31.2	27.3	27.3	17.6	11.7	7.8	2.0	0.0	13.7
85°	212.9	33.2	19.6	17.6	13.7	5.9	3.9	2.0	0.0	0.0	0.0
87.5°	35.1	13.7	7.8	3.9	2.0	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)