

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: P383224

Luminaire Tested: **GLEON-SA5C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383224
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-SA5C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA 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: 26727 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

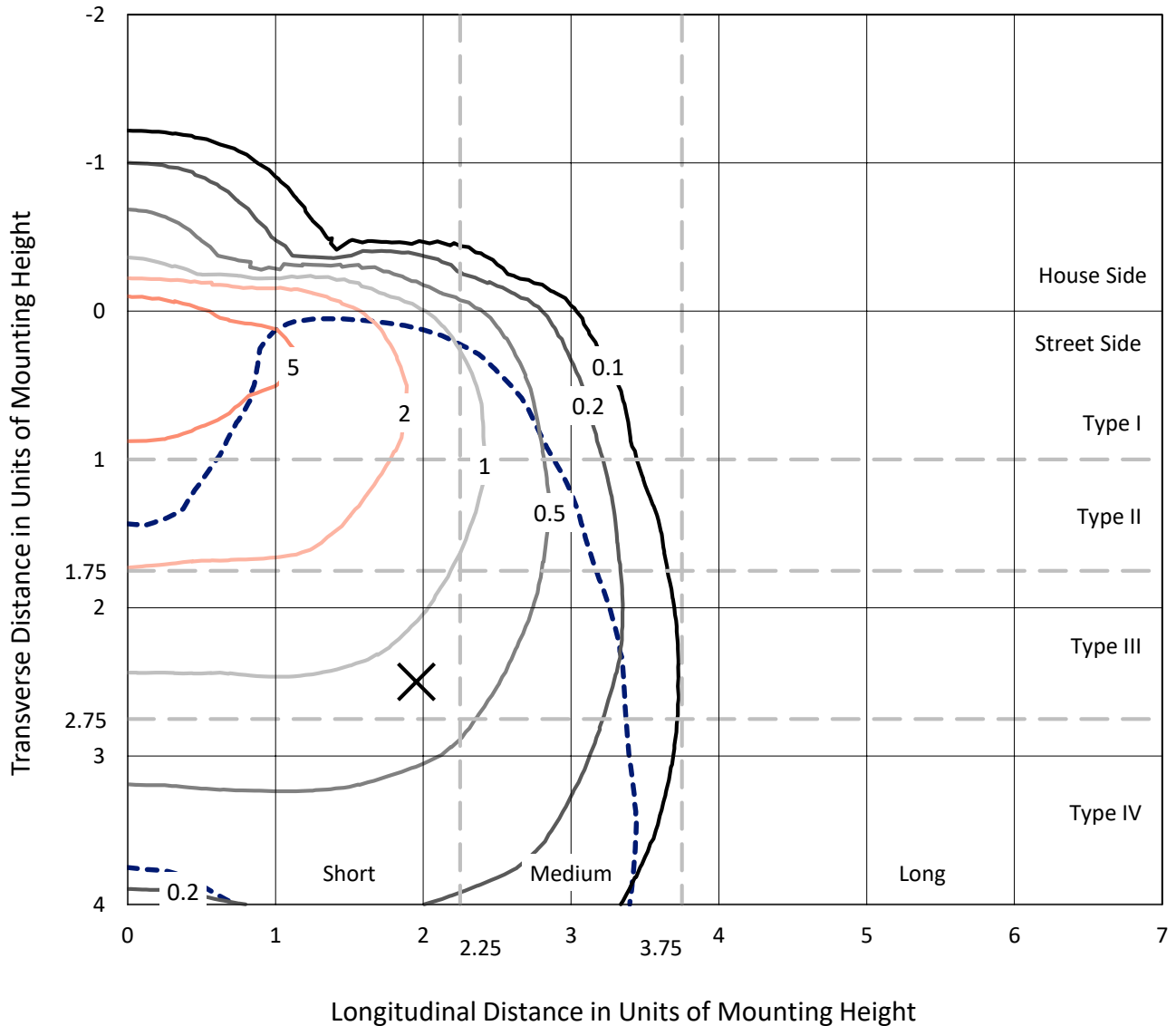
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383224
 CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

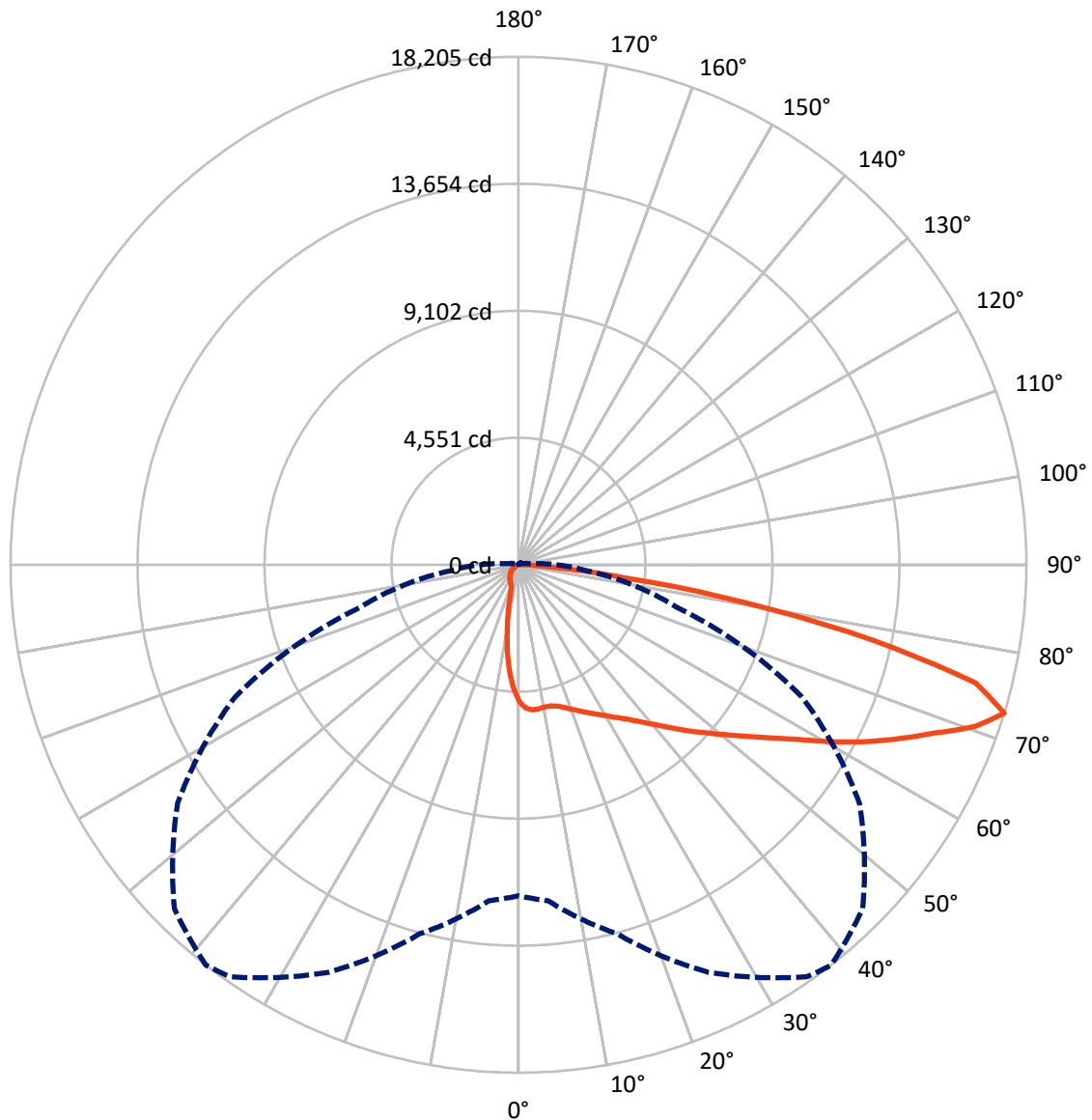
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P383224
CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383224
 CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

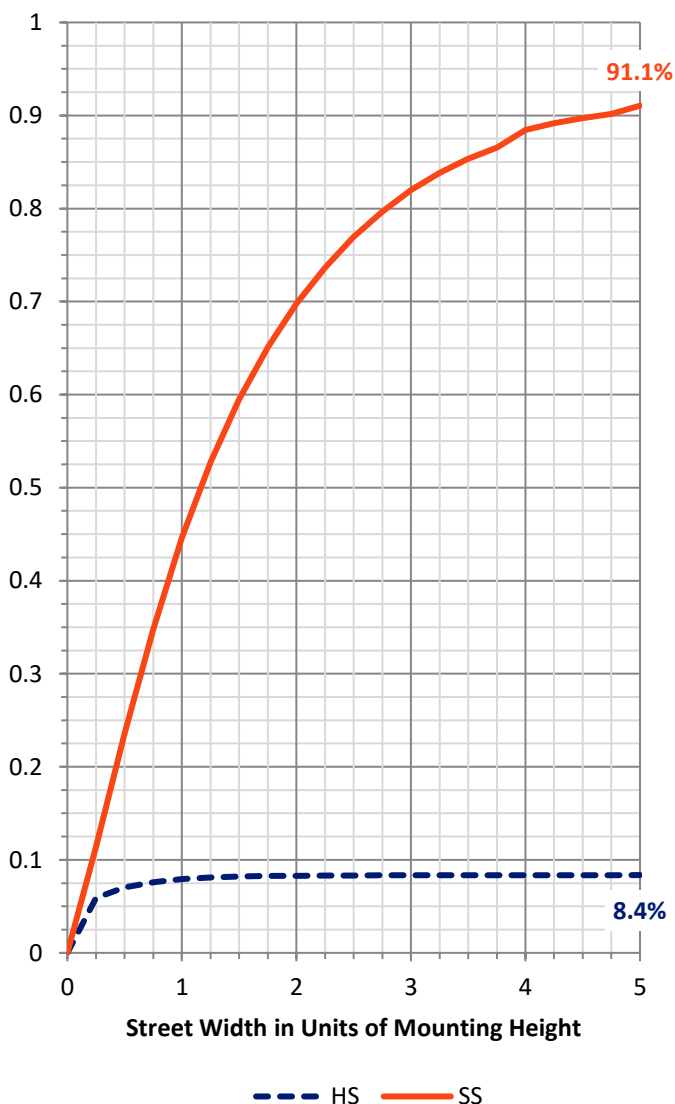
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2249.2	0.0	2249.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	24477.9	0.0	24477.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	26727.0	0.0	26727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.9	1.6
10°-20°	1024.2	3.8
20°-30°	1629.0	6.1
30°-40°	2449.0	9.2
40°-50°	3736.1	14.0
50°-60°	5280.3	19.8
60°-70°	6623.3	24.8
70°-80°	4952.3	18.5
80°-90°	614.1	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°	26727.0	100.0
0°-180°	26727.0	100.0

Coefficient of Utilization

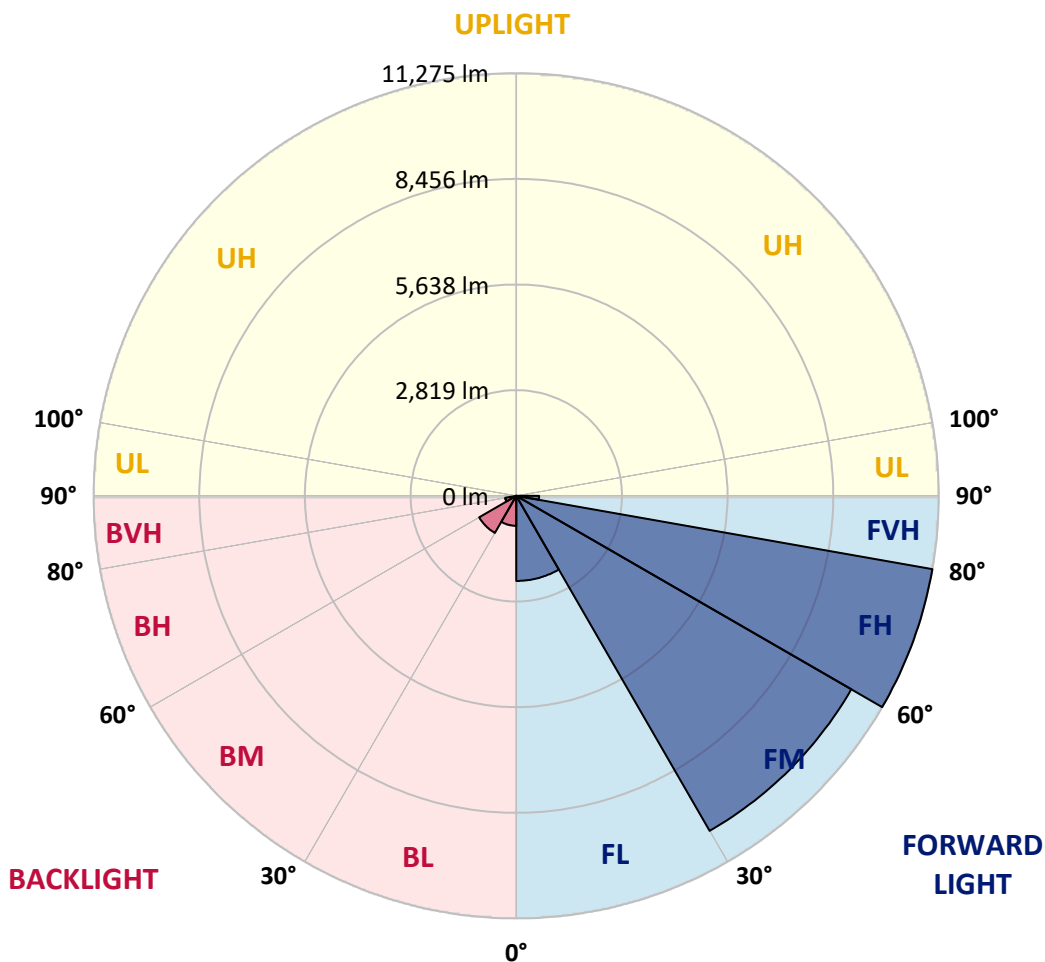


REPORT NUMBER: P383224
 CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2271.2	8.5			
FM (30°-60°)	10323.2	38.6			
FH (60°-80°)	11275.2	42.2			G4/12000
FVH (80°-90°)	608.3	2.3			G4/750
BL (0°-30°)	800.8	3.0	B2/1000		
BM (30°-60°)	1142.2	4.3	B2/2500		
BH (60°-80°)	300.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.7	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 IV Short





REPORT NUMBER: P383224

CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0
2.5°	5216.9	5218.1	5205.9	5185.8	5160.3	5147.0	5124.8	5089.3	5051.5	4983.9	4910.6
5°	5323.5	5323.5	5308.0	5281.3	5240.2	5228.0	5185.8	5129.2	5051.5	4941.7	4818.4
7.5°	5312.4	5314.6	5293.5	5265.8	5224.7	5213.6	5162.5	5099.3	5002.7	4869.5	4711.9
10°	5254.7	5260.3	5243.6	5230.3	5192.5	5180.3	5132.5	5069.3	4972.7	4830.6	4649.7
12.5°	5195.8	5201.4	5207.0	5219.2	5195.8	5191.4	5153.7	5100.4	5008.3	4860.6	4656.3
15°	5158.1	5169.2	5209.1	5256.9	5262.4	5258.0	5233.6	5183.6	5090.3	4937.2	4704.1
17.5°	5158.1	5175.9	5259.1	5350.2	5382.3	5385.6	5364.6	5294.6	5183.6	5019.4	4748.5
20°	5201.4	5225.8	5355.7	5484.4	5537.7	5537.7	5496.7	5399.0	5269.1	5093.7	4778.5
22.5°	5312.4	5344.6	5507.8	5656.5	5713.1	5700.9	5645.4	5503.3	5357.9	5178.1	4816.2
25°	5531.1	5555.5	5725.3	5875.2	5909.6	5881.8	5811.9	5629.8	5471.1	5292.4	4885.0
27.5°	5813.0	5816.3	5991.7	6118.2	6097.2	6078.3	5990.6	5788.5	5634.3	5455.6	5003.8
30°	6122.7	6122.7	6277.0	6373.6	6309.2	6293.6	6206.0	5980.6	5842.9	5677.6	5172.5
32.5°	6422.4	6435.7	6561.1	6622.2	6550.0	6534.5	6449.0	6223.7	6120.5	6016.1	5435.6
35°	6712.1	6722.0	6840.8	6874.2	6805.3	6809.8	6748.7	6557.8	6519.0	6505.6	5831.9
37.5°	6992.9	6995.1	7116.1	7137.2	7102.8	7140.5	7146.1	6977.4	7049.5	7157.2	6390.1
40°	7249.3	7251.5	7371.4	7425.8	7484.6	7533.4	7576.7	7486.8	7725.5	7975.3	7055.1
42.5°	7454.6	7478.0	7630.0	7733.2	7888.6	7981.9	8099.5	8095.1	8530.3	8905.4	7858.7
45°	7635.6	7675.6	7887.5	8068.5	8334.8	8483.6	8667.9	8812.2	9436.0	9941.0	8672.3
47.5°	7874.3	7912.0	8153.9	8450.3	8805.5	9000.9	9306.1	9618.0	10431.7	10957.8	9467.0
50°	8210.6	8193.9	8432.6	8857.7	9313.9	9570.3	10005.4	10472.7	11419.6	11843.5	9934.4
52.5°	8569.1	8562.4	8738.9	9300.6	9913.3	10212.9	10788.0	11356.2	12364.2	12454.0	10148.6
55°	9013.1	8965.3	9114.1	9805.6	10624.8	10946.7	11623.8	12230.9	13116.7	12798.2	10256.2
57.5°	9478.1	9399.3	9541.5	10368.4	11427.3	11808.0	12549.5	13083.4	13617.3	13033.5	10255.1
60°	9958.8	9865.6	10034.3	11072.1	12424.1	12864.8	13552.9	13659.5	14084.6	13152.2	10179.7
62.5°	10360.6	10305.1	10555.9	11824.7	13537.3	13970.2	14311.0	14183.4	14478.7	13244.4	10003.1
65°	10785.7	10789.1	11194.2	12702.7	14720.6	15012.5	15041.4	14862.7	14808.3	13225.5	9406.0
67.5°	11360.7	11414.0	12090.0	13894.8	15871.7	16097.0	16094.8	15598.6	15049.2	12475.1	8081.8
70°	11969.0	12094.4	13122.2	15258.9	17128.2	17356.9	17239.2	16067.1	14170.1	10087.5	5719.8
72.5°	11866.9	12084.4	13696.1	16119.2	18030.6	18204.9	17440.1	14915.9	11199.7	5863.0	2435.3
75°	9155.2	9407.1	12558.4	15266.8	17083.7	16927.2	14984.8	11607.1	6120.5	1636.1	548.3
77.5°	4836.2	4970.6	8296.0	11630.5	13320.9	12993.5	10555.9	6439.0	1865.9	405.1	246.4
80°	2533.0	2564.1	3615.2	6598.9	8221.7	8223.9	6255.9	2828.3	769.2	207.5	165.3
82.5°	1356.4	1383.1	1910.3	3049.1	4307.8	3905.0	2395.4	1556.2	447.3	117.7	158.7
85°	326.3	331.9	1083.4	1393.0	1693.8	1209.9	711.5	1306.5	121.0	68.8	128.7
87.5°	125.4	127.6	401.8	602.7	431.8	279.7	333.0	487.3	15.6	26.6	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383224

CATALOG NUMBER: GLEON-SA5C-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0	4915.0
2.5°	4866.2	4837.3	4766.3	4676.4	4596.4	4538.7	4452.1	4395.5	4357.8	4356.7	4342.2
5°	4743.0	4684.1	4531.0	4348.9	4183.5	4034.8	3859.4	3720.7	3617.5	3600.8	3565.3
7.5°	4610.9	4514.3	4279.0	3994.8	3717.3	3435.4	3107.9	2904.8	2730.6	2647.3	2638.4
10°	4529.8	4394.4	4060.3	3649.6	3214.5	2756.1	2327.7	2031.2	1817.1	1756.0	1710.5
12.5°	4513.2	4334.5	3891.6	3325.5	2703.9	2097.8	1623.9	1308.6	1137.7	1083.4	1069.0
15°	4529.8	4306.7	3749.6	3004.7	2186.7	1488.5	1090.0	906.9	842.5	826.9	825.8
17.5°	4539.8	4273.5	3588.6	2648.4	1685.0	1063.4	834.7	781.5	771.4	770.3	772.5
20°	4538.7	4222.4	3396.5	2251.1	1253.2	835.8	754.8	743.7	741.5	742.5	741.5
22.5°	4531.0	4162.4	3185.6	1841.5	946.8	747.0	720.4	713.8	712.6	712.6	712.6
25°	4545.4	4114.7	2953.7	1449.7	780.4	705.9	689.3	683.8	682.6	682.6	680.4
27.5°	4597.6	4088.1	2699.4	1115.5	704.8	669.3	656.0	654.9	651.5	650.4	652.6
30°	4682.0	4088.1	2420.9	868.0	659.3	631.6	621.6	619.4	618.3	617.2	618.3
32.5°	4830.6	4119.1	2116.8	721.5	616.0	589.4	582.8	586.0	582.8	582.8	582.8
35°	5099.3	4212.4	1798.2	629.4	570.6	548.3	541.7	546.1	543.9	543.9	542.8
37.5°	5491.1	4385.5	1477.4	573.8	530.6	507.2	498.4	505.1	502.8	502.8	501.7
40°	5968.4	4637.5	1172.2	531.7	491.8	467.3	459.5	462.9	457.3	457.3	459.5
42.5°	6557.8	4957.2	905.7	490.6	452.9	429.5	425.2	421.8	411.8	406.2	407.4
45°	7212.7	5290.2	705.9	450.7	416.2	397.4	390.7	381.8	365.2	354.1	355.2
47.5°	7797.6	5546.6	573.8	411.8	383.0	368.5	358.6	341.9	317.5	304.2	305.3
50°	8105.1	5585.5	488.4	373.0	351.8	337.4	323.0	297.4	268.7	254.2	253.1
52.5°	8183.9	5403.4	425.2	337.4	320.8	304.2	285.2	250.9	218.6	203.2	200.9
55°	8212.8	5125.9	368.5	304.2	287.5	268.7	244.2	205.3	175.4	159.9	158.7
57.5°	8117.3	4711.9	324.1	274.2	254.2	230.8	200.9	164.2	135.4	123.2	123.2
60°	7905.3	4151.3	289.7	242.0	219.8	193.1	162.1	127.6	101.0	91.0	91.0
62.5°	7482.4	3425.4	257.5	208.7	187.6	159.9	131.0	96.6	71.1	65.5	66.6
65°	6684.3	2598.5	225.3	178.7	159.9	132.1	102.1	68.8	47.7	47.7	49.9
67.5°	5451.1	1804.9	192.0	152.0	137.7	107.7	77.7	47.7	33.3	37.7	42.2
70°	3608.5	1012.3	164.2	125.4	117.7	85.4	57.8	32.2	26.6	35.5	43.3
72.5°	1361.9	394.0	137.7	101.0	102.1	65.5	41.1	24.4	24.4	38.8	51.0
75°	379.6	193.1	98.7	74.3	79.9	47.7	30.0	21.1	23.3	44.4	59.9
77.5°	223.1	142.1	64.4	43.3	54.4	33.3	19.9	16.7	19.9	37.7	57.8
80°	179.8	75.5	37.7	22.2	30.0	18.9	13.3	10.0	5.6	14.4	30.0
82.5°	179.8	45.6	17.8	15.6	15.6	10.0	6.6	4.5	1.1	0.0	7.7
85°	121.0	18.9	11.1	10.0	7.7	3.4	2.2	1.1	0.0	0.0	0.0
87.5°	19.9	7.7	4.5	2.2	1.1	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)