

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: P383418

Luminaire Tested: **GLEON-SA7B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383418
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-SA7B-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA 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: 32168.2 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

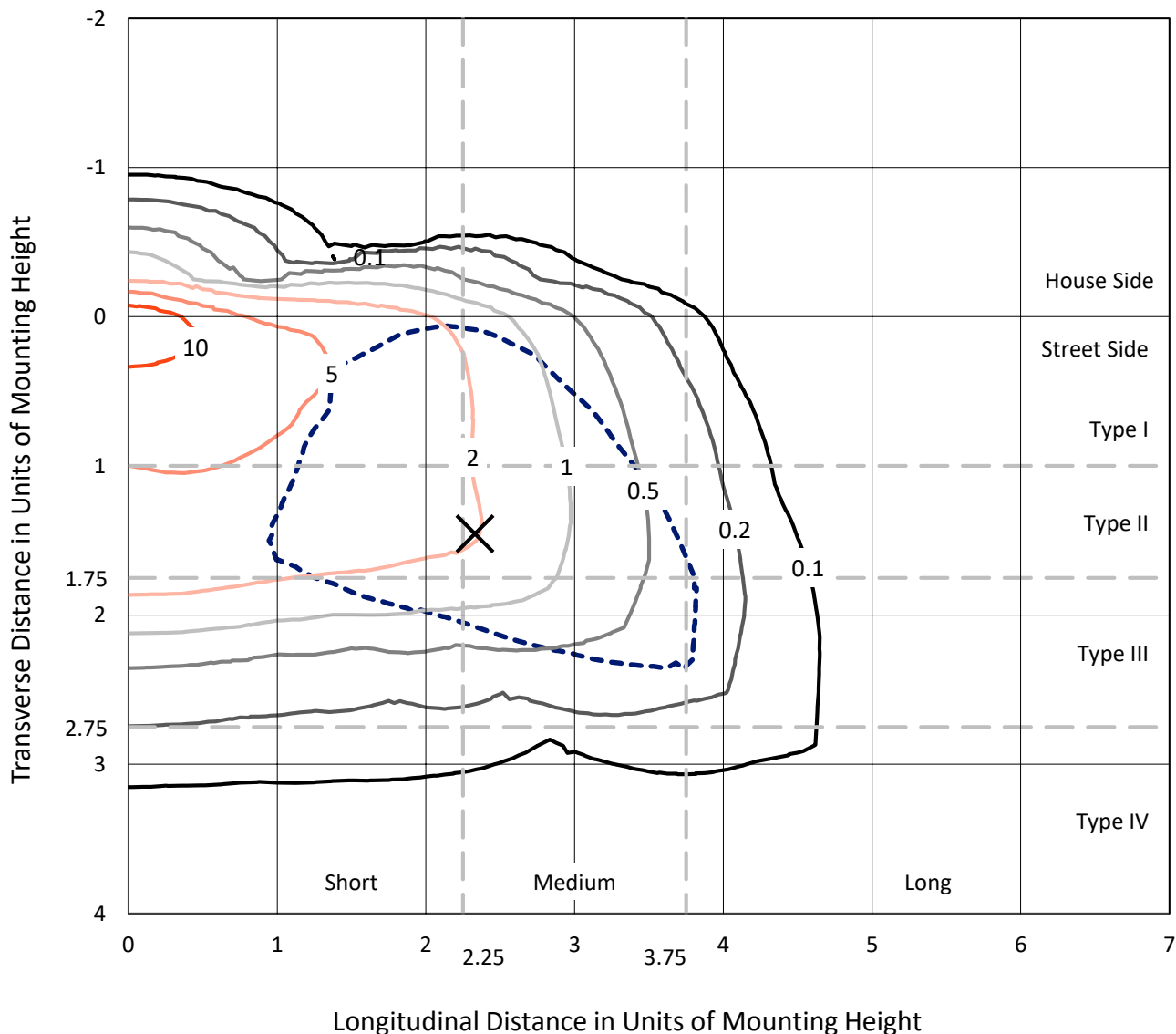
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383418
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

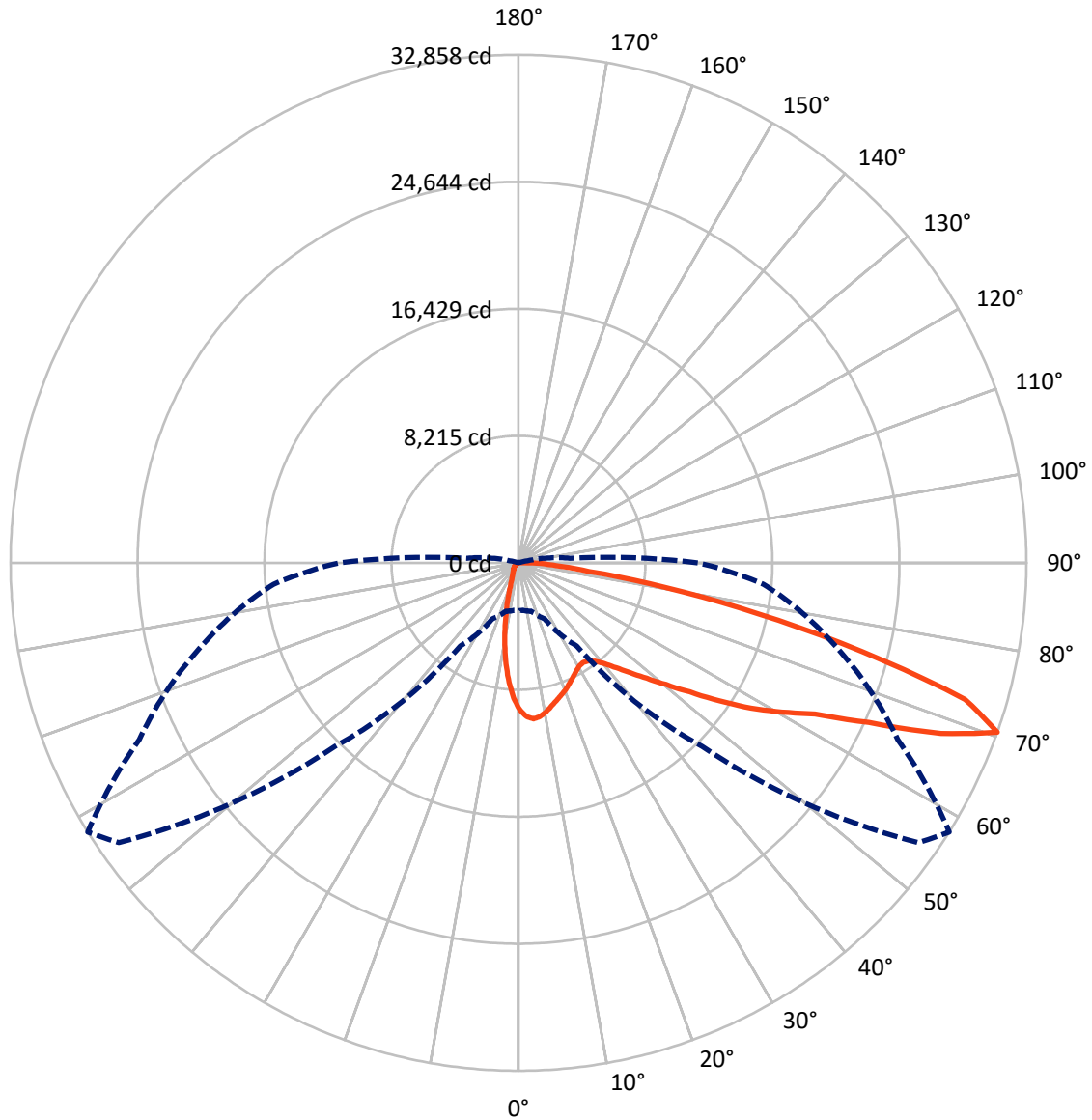
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P383418
CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P383418
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

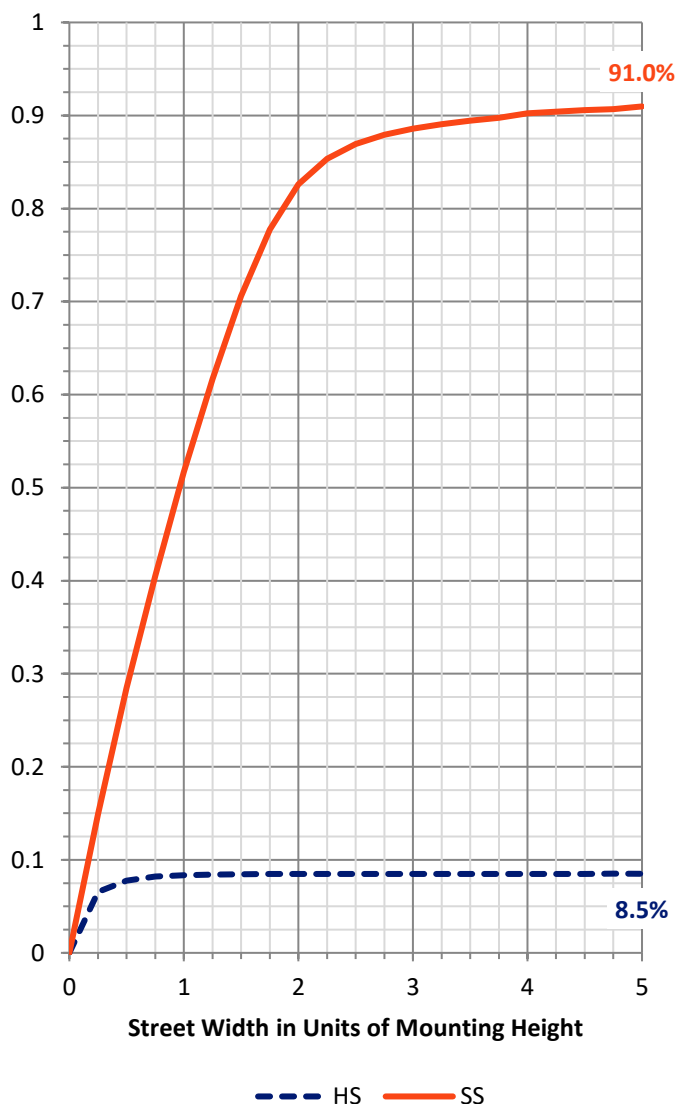
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2752.9	0.0	2752.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	29415.3	0.0	29415.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	32168.2	0.0	32168.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	777.0	2.4
10°-20°	1630.8	5.1
20°-30°	2144.0	6.7
30°-40°	2839.5	8.8
40°-50°	4244.2	13.2
50°-60°	6799.0	21.1
60°-70°	8570.0	26.6
70°-80°	4622.6	14.4
80°-90°	541.1	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°	32168.2	100.0
0°-180°	32168.2	100.0

Coefficient of Utilization

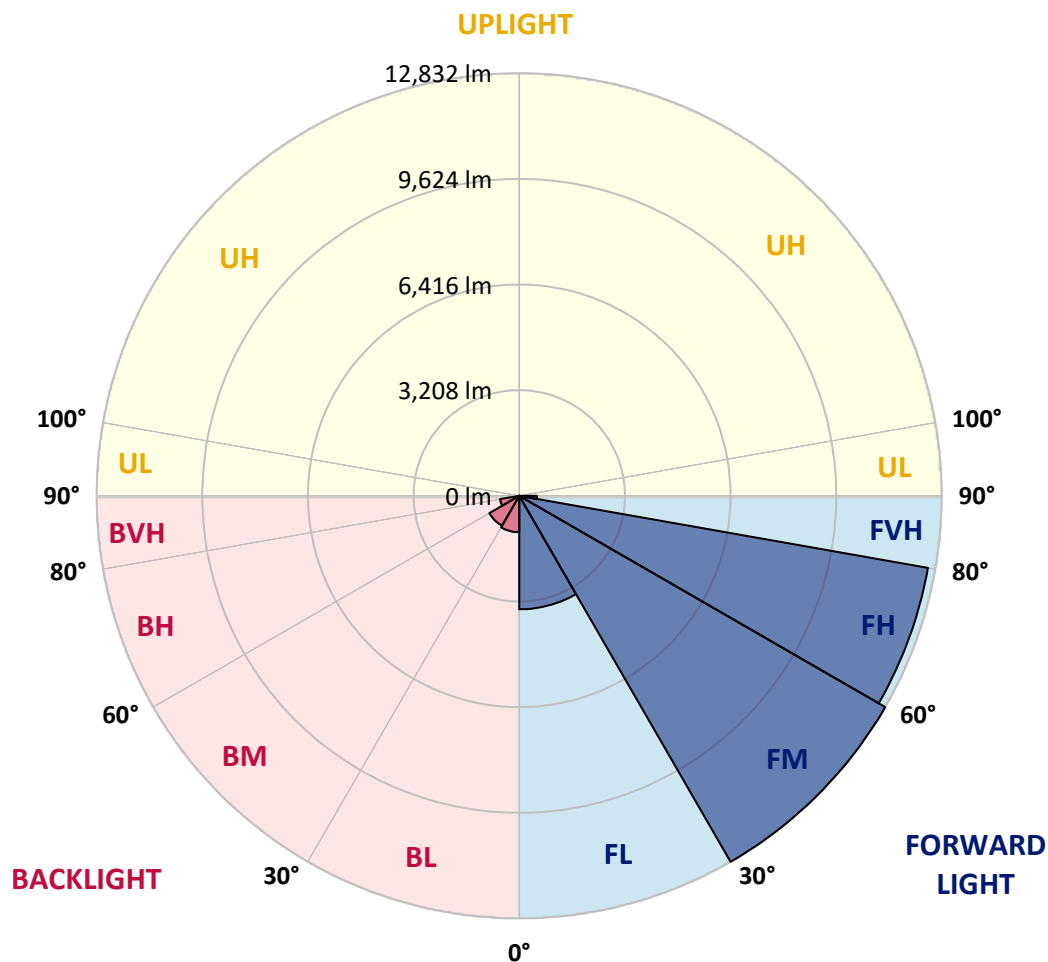


REPORT NUMBER: P383418
 CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3445.9	10.7			
FM (30°-60°)	12832.4	39.9			
FH (60°-80°)	12600.6	39.2			G5
FVH (80°-90°)	536.4	1.7			G4/750
BL (0°-30°)	1106.0	3.4	B3/2500		
BM (30°-60°)	1050.2	3.3	B2/2500		
BH (60°-80°)	592.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P383418

CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3
2.5°	10290.2	10264.7	10255.4	10239.4	10177.8	10117.6	9998.6	9965.1	9890.2	9712.3	9523.8
5°	10298.2	10296.9	10325.0	10318.3	10296.9	10268.8	10183.2	10139.1	10012.0	9757.8	9412.7
7.5°	9801.9	9827.4	9890.2	9941.1	9999.9	10076.2	10086.9	10044.0	9939.7	9665.6	9208.1
10°	9135.9	9175.9	9264.2	9364.6	9518.4	9670.9	9807.3	9801.9	9765.9	9495.6	8962.0
12.5°	8468.3	8515.2	8616.8	8765.3	8983.4	9232.1	9475.6	9509.1	9569.2	9343.1	8734.6
15°	7883.9	7923.9	8024.3	8206.2	8476.4	8810.8	9167.9	9229.5	9384.6	9224.1	8544.6
17.5°	7387.5	7413.0	7486.6	7688.5	8001.5	8406.8	8870.9	8991.4	9222.8	9130.5	8380.1
20°	7041.1	7045.2	7093.3	7235.1	7548.1	8001.5	8563.3	8735.9	9051.6	9050.3	8210.2
22.5°	6870.0	6856.6	6865.9	6947.5	7177.6	7614.9	8255.7	8460.3	8897.8	8982.0	8037.7
25°	6837.8	6827.1	6800.4	6811.1	6950.2	7276.6	7945.4	8182.2	8762.6	8940.5	7887.9
27.5°	6938.2	6948.9	6903.3	6855.3	6865.9	7057.2	7669.8	7944.1	8653.0	8940.5	7782.1
30°	7140.1	7145.4	7112.0	7049.2	6964.9	6995.6	7478.6	7752.7	8598.1	9002.1	7715.3
32.5°	7363.5	7392.9	7388.9	7338.1	7217.7	7093.3	7433.1	7683.2	8594.1	9138.5	7708.6
35°	7640.4	7673.8	7730.0	7719.3	7593.6	7388.9	7588.2	7784.9	8673.0	9363.3	7780.8
37.5°	7934.6	7985.5	8105.9	8163.4	8081.8	7850.4	7936.0	8076.4	8884.4	9727.0	7964.1
40°	8219.6	8277.1	8496.5	8722.5	8661.0	8422.9	8463.0	8575.4	9260.2	10250.1	8311.8
42.5°	8499.2	8584.8	8907.1	9279.0	9352.6	9162.6	9183.9	9273.6	9818.0	10969.7	8880.4
45°	8833.5	8929.8	9407.3	9866.2	10062.8	9979.9	10070.8	10129.6	10547.0	11920.7	9646.8
47.5°	9324.4	9435.5	10021.3	10544.4	10889.4	10942.9	11126.2	11165.0	11468.7	13028.3	10646.0
50°	10282.1	10312.9	10842.7	11317.5	11815.0	12136.1	12344.8	12374.2	12584.2	14238.8	11894.0
52.5°	11487.4	11507.4	11807.0	12125.4	12691.2	13346.6	13834.8	13876.3	13920.4	15418.5	13125.9
55°	12684.5	12681.8	12879.8	13067.0	13714.4	14666.8	15726.2	15751.6	15434.6	16538.1	14067.6
57.5°	13432.2	13504.5	13805.4	14046.2	14950.4	16171.7	17641.6	17735.3	17025.1	17367.4	14998.6
60°	13194.2	13228.9	13896.4	14787.2	16490.0	18310.4	19579.8	19604.0	18220.8	18195.5	16175.7
62.5°	11241.3	11260.0	12308.6	14145.2	17269.8	21084.6	21918.0	21526.0	19595.8	19344.4	17584.2
65°	7704.6	7826.3	8702.4	10972.3	15837.2	22824.9	25537.5	24888.8	21691.9	21000.3	18857.5
67.5°	4537.2	4511.8	4945.1	6617.2	11631.8	21669.2	30116.1	29471.4	24550.4	22109.3	18484.3
70°	3099.3	3081.8	3247.7	4006.1	6566.3	16809.7	31556.7	32858.2	27074.4	21362.9	15908.1
72.5°	2212.4	2221.7	2466.6	3112.6	4122.5	9793.9	27137.3	30217.8	26283.9	18623.4	12092.0
75°	1502.1	1527.6	1878.0	2553.5	3614.2	4982.6	19257.5	22970.7	21403.0	13535.2	6950.2
77.5°	807.9	836.0	1249.3	2057.2	3267.8	3461.7	12387.5	15809.1	13444.3	6084.8	2014.5
80°	337.0	353.1	584.5	1495.4	2823.7	3040.4	7288.6	9586.6	5728.9	1199.8	449.5
82.5°	145.8	153.8	243.4	892.1	2110.7	2566.9	3859.0	4612.1	1736.2	263.5	226.1
85°	28.1	29.4	100.3	472.2	1346.9	1448.6	2501.3	2451.8	779.8	113.7	164.5
87.5°	0.0	0.0	24.0	148.5	395.9	789.2	1526.2	1507.5	264.8	54.9	61.6
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: P383418

CATALOG NUMBER: GLEON-SA7B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3	9502.3
2.5°	9427.4	9335.1	9141.2	8901.8	8718.5	8516.5	8356.0	8152.7	8064.4	8068.4	8020.3
5°	9216.1	9026.1	8596.8	8055.1	7637.8	7207.0	6836.5	6467.3	6249.3	6178.4	6111.5
7.5°	8913.8	8612.8	7927.9	7093.3	6387.1	5696.9	5096.3	4567.9	4233.5	4070.3	4010.1
10°	8572.7	8150.0	7158.9	6059.3	5050.8	4117.2	3338.7	2661.8	2391.7	2208.4	2161.6
12.5°	8273.1	7700.5	6407.1	4998.6	3801.5	2675.2	1932.9	1511.5	1328.2	1256.0	1244.0
15°	7990.8	7280.6	5683.5	4038.3	2632.4	1646.6	1229.3	1086.1	1043.3	1031.3	1031.3
17.5°	7724.7	6880.6	4975.9	3092.6	1741.5	1154.4	1017.9	985.9	972.4	971.1	972.4
20°	7446.4	6480.7	4280.4	2265.9	1215.9	977.8	940.3	923.0	919.0	919.0	919.0
22.5°	7180.3	6080.8	3603.5	1618.5	975.1	892.1	873.4	861.4	857.4	856.1	853.4
25°	6924.8	5700.9	2942.8	1143.7	856.1	817.2	801.2	785.2	773.1	766.5	762.5
27.5°	6714.8	5362.5	2327.5	917.6	773.1	739.6	719.6	695.6	666.1	652.7	647.4
30°	6547.6	5053.5	1793.7	774.5	695.6	662.1	631.3	589.9	547.1	524.4	523.0
32.5°	6416.5	4749.9	1361.6	684.9	626.0	584.5	540.4	488.2	438.8	413.3	412.0
35°	6352.3	4482.3	1040.6	619.3	564.4	512.3	457.5	399.9	351.8	327.7	325.0
37.5°	6395.1	4256.2	811.9	564.4	512.3	452.1	387.9	327.7	284.9	263.5	262.1
40°	6551.6	4111.8	659.4	517.7	468.2	394.6	325.0	268.8	232.7	215.4	214.0
42.5°	6884.6	4058.3	563.1	478.8	425.3	341.1	270.2	222.1	188.6	176.5	173.9
45°	7441.1	4137.2	497.6	441.4	381.2	290.3	223.4	181.9	152.5	143.1	141.8
47.5°	8182.2	4344.6	450.8	405.3	341.1	244.8	185.9	147.1	124.4	115.0	113.7
50°	9137.2	4673.6	412.0	369.2	303.6	207.4	153.8	116.4	96.3	89.6	89.6
52.5°	10176.5	5065.5	377.2	335.7	266.1	172.5	124.4	89.6	76.2	68.2	68.2
55°	11035.2	5407.9	339.7	310.3	220.7	143.1	94.9	68.2	56.2	52.2	52.2
57.5°	11892.6	5773.1	297.0	266.1	176.5	116.4	72.2	50.9	41.5	38.8	38.8
60°	13004.2	6219.9	255.5	216.7	139.1	88.3	53.5	36.1	30.7	29.4	29.4
62.5°	14226.8	6482.0	218.1	173.9	108.3	65.6	38.8	24.0	22.7	22.7	21.4
65°	14974.4	6111.5	183.2	139.1	84.3	49.5	25.4	17.4	20.0	18.7	16.0
67.5°	14020.7	4784.6	149.8	108.3	65.6	37.4	16.0	12.0	21.4	17.4	13.4
70°	11609.0	3349.4	116.4	76.2	52.2	32.1	10.7	8.0	22.7	17.4	10.7
72.5°	8687.7	2241.9	92.3	50.9	38.8	28.1	9.4	4.0	20.0	14.7	9.4
75°	4747.2	902.9	73.6	32.1	24.0	20.0	6.7	2.7	13.4	10.7	6.7
77.5°	1249.3	238.1	53.5	21.4	13.4	8.0	4.0	1.3	6.7	5.3	2.7
80°	318.3	92.3	34.7	14.7	9.4	4.0	0.0	0.0	1.3	0.0	0.0
82.5°	169.9	38.8	21.4	10.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	128.4	25.4	12.0	6.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	49.5	8.0	4.0	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)