

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: P382616

Luminaire Tested: **GLEON-SA0A-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382616
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-SA0A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA 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: 34683.4 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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

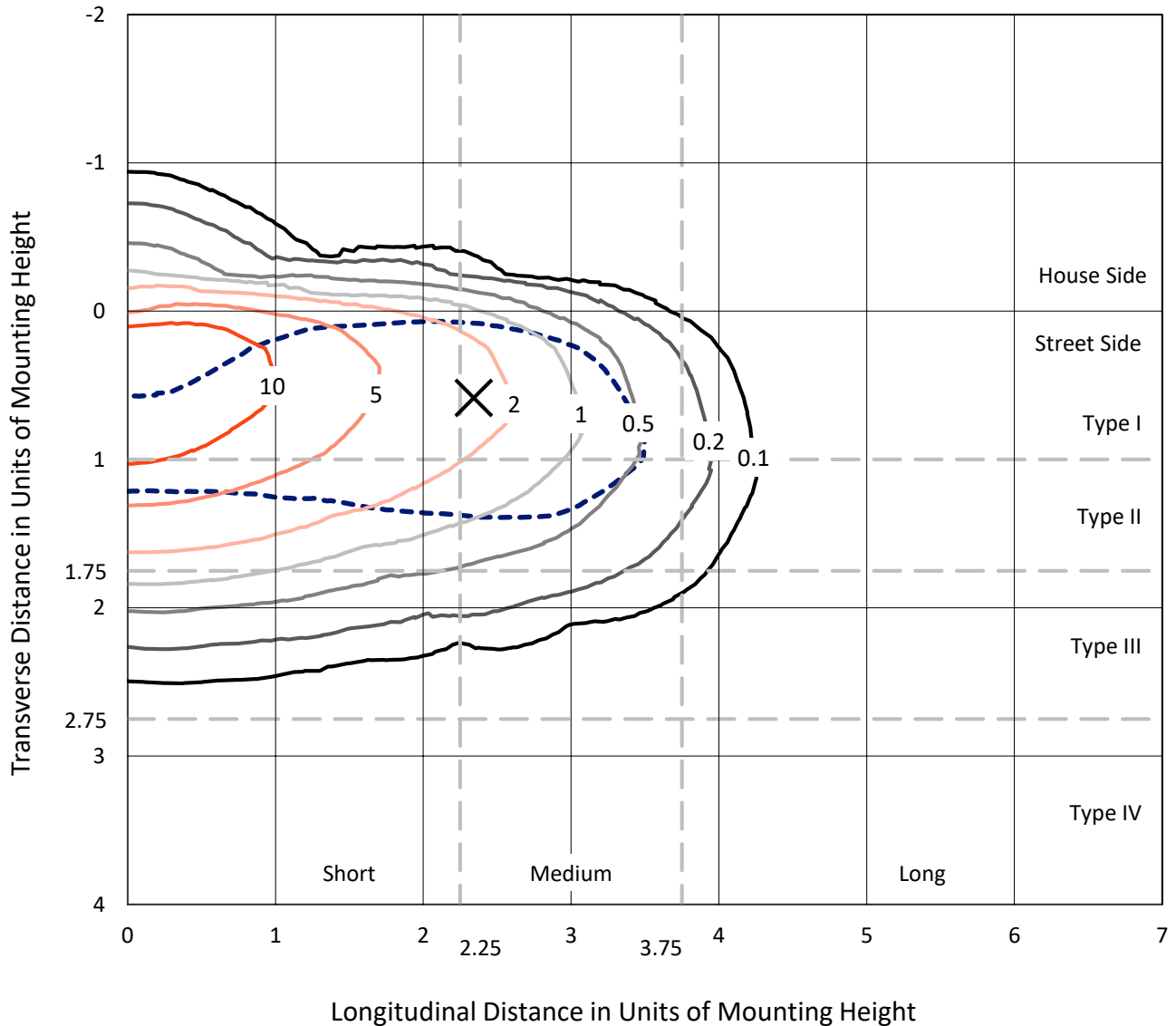




REPORT NUMBER: P382616
 CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

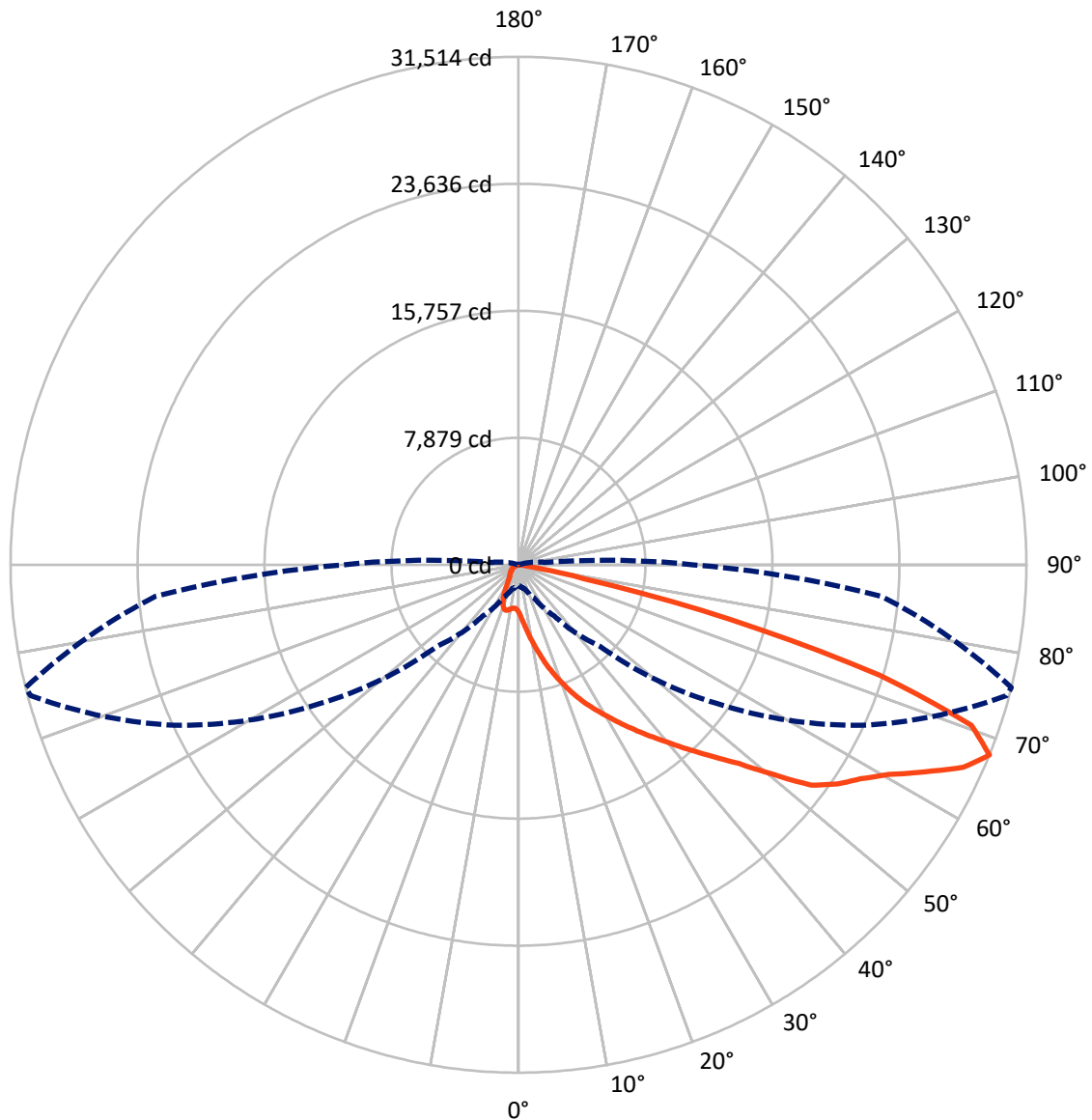
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P382616
CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P382616
 CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

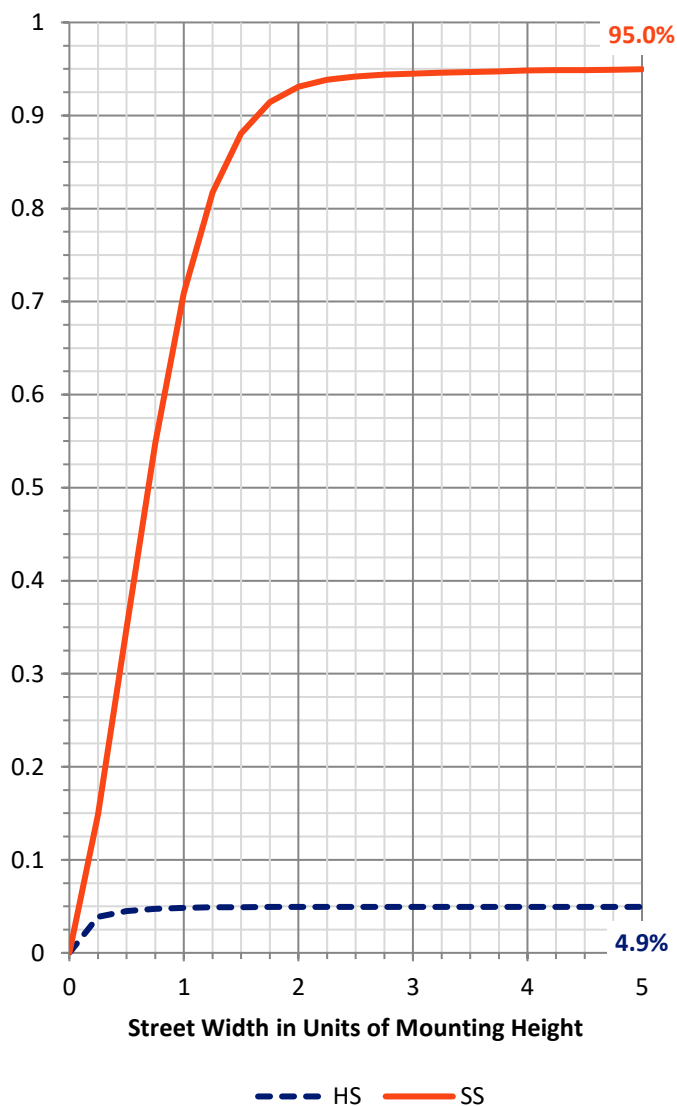
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1722.3	0.0	1722.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32961.1	0.0	32961.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	34683.4	0.0	34683.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	1.1
10°-20°	1450.3	4.2
20°-30°	2950.9	8.5
30°-40°	5121.7	14.8
40°-50°	7236.4	20.9
50°-60°	8206.4	23.7
60°-70°	6806.4	19.6
70°-80°	2465.5	7.1
80°-90°	80.0	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°	34683.4	100.0
0°-180°	34683.4	100.0

Coefficient of Utilization



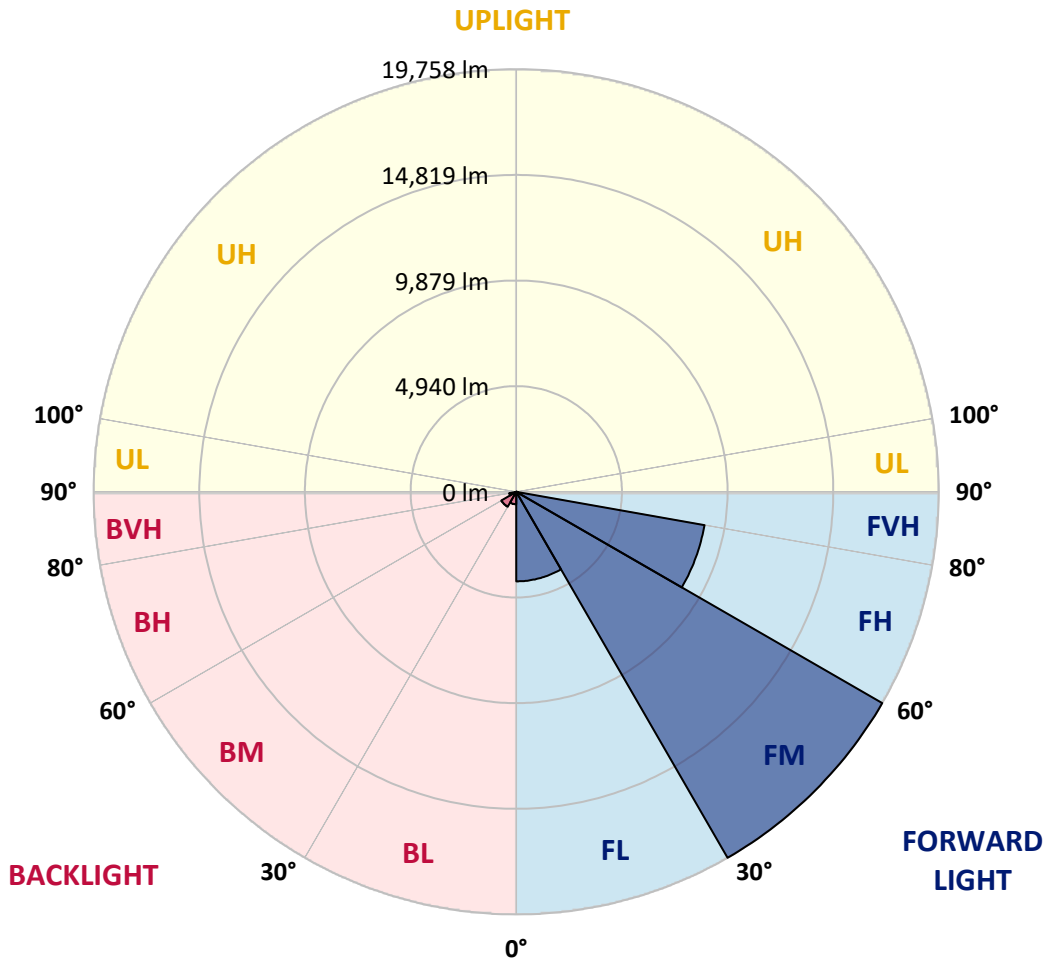
REPORT NUMBER: P382616
 CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4186.2	12.1			
FM (30°-60°)	19758.4	57.0			
FH (60°-80°)	8939.1	25.8			G4/12000
FVH (80°-90°)	77.4	0.2			G1/100
BL (0°-30°)	580.8	1.7	B2/1000		
BM (30°-60°)	806.1	2.3	B1/1000		
BH (60°-80°)	332.8	1.0	B1/500		G1/500
BVH (80°-90°)	2.5	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 II Medium





REPORT NUMBER: P382616

CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2
2.5°	4392.0	4293.1	4316.0	4252.1	4136.6	3899.6	3697.4	3506.0	3282.6	3274.9	3091.1
5°	5922.3	5838.8	5828.0	5698.9	5489.1	5086.4	4694.3	4247.6	3749.1	3712.7	3322.1
7.5°	7311.3	7244.5	7220.1	7066.6	6676.1	6284.0	5773.4	5116.9	4337.3	4270.4	3633.6
10°	8378.2	8346.2	8352.3	8242.9	7908.6	7543.9	6873.6	6036.2	5004.4	4901.1	4007.4
12.5°	9186.6	9194.2	9249.0	9182.1	8995.1	8724.7	8008.9	7016.5	5743.0	5601.7	4434.5
15°	9780.9	9818.8	9919.1	10002.7	9989.1	9755.0	9098.5	8011.9	6527.2	6370.6	4910.2
17.5°	10165.3	10207.9	10353.8	10539.2	10709.4	10654.7	10150.1	8972.4	7320.5	7139.6	5419.3
20°	10502.7	10552.9	10709.4	10954.1	11271.6	11340.1	11008.8	9903.9	8112.2	7891.9	5945.1
22.5°	11233.7	11232.1	11327.9	11470.8	11773.2	11949.4	11739.7	10768.7	8894.9	8665.3	6481.5
25°	12555.9	12505.7	12472.2	12359.8	12426.7	12536.1	12419.0	11577.2	9682.0	9449.5	7025.6
27.5°	14127.2	14157.6	13887.1	13584.7	13350.7	13238.2	13046.7	12326.3	10438.9	10183.6	7557.6
30°	15785.2	15794.3	15475.1	15089.2	14574.0	14146.9	13815.7	13042.1	11217.0	10938.9	8074.2
32.5°	17280.6	17221.3	16905.3	16379.4	15729.0	15248.8	14560.4	13841.5	12040.6	11771.7	8648.7
35°	18466.0	18396.1	18011.6	17532.8	16858.1	16374.8	15546.6	14639.4	12906.9	12644.0	9224.7
37.5°	19332.2	19250.2	18855.0	18362.7	17780.5	17499.4	16690.9	15507.1	13852.1	13569.5	9831.0
40°	19633.1	19561.7	19314.0	18953.8	18485.7	18421.9	17905.2	16505.5	14881.0	14580.1	10517.9
42.5°	19453.8	19383.9	19295.7	19174.1	18979.6	19040.5	19051.1	17643.8	16023.8	15727.5	11276.2
45°	18742.6	18680.2	18771.4	18949.3	19190.9	19491.8	20096.6	18867.2	17300.3	16984.3	12153.1
47.5°	17695.5	17649.8	17902.2	18345.9	19052.6	19882.3	21052.5	20152.8	18733.4	18440.2	13247.3
50°	16206.1	16198.6	16703.1	17513.1	18599.7	20070.8	22040.3	21614.8	20724.2	20415.8	14768.6
52.5°	13887.1	13902.3	14894.7	16190.9	17804.9	19943.1	22675.5	23493.2	23040.3	22719.6	16086.2
55°	11679.0	11770.1	12473.8	14343.0	16586.1	19469.0	22894.4	24370.0	24318.3	24014.5	16818.6
57.5°	9516.4	9682.0	10359.8	12106.0	14806.5	18376.3	22774.4	24750.0	25269.7	25037.2	17785.1
60°	7173.0	7249.0	8030.1	9662.3	12522.4	16382.5	21903.6	24956.6	26570.6	26409.5	19187.8
62.5°	4563.7	4753.7	5446.7	7021.1	9750.4	13613.5	20435.5	24953.6	28198.2	28286.3	20997.8
65°	2404.1	2626.0	2993.8	4350.9	6700.4	10520.9	18227.4	24719.5	30195.1	30318.1	22412.7
67.5°	1296.3	1360.2	1554.7	2258.3	3885.9	7127.5	14982.8	23564.6	31351.6	31514.2	22610.2
70°	948.3	983.2	1056.2	1249.2	1955.9	4139.7	10932.7	20946.1	29860.8	29799.9	20089.0
72.5°	727.9	782.7	837.4	914.9	1124.6	2209.6	6806.8	16402.2	23826.0	23424.8	15016.3
75°	574.5	583.5	661.1	731.0	843.4	1258.3	3022.7	9552.9	14542.1	13592.3	7787.0
77.5°	459.0	465.0	510.6	571.4	677.8	826.7	936.1	3758.2	4642.7	4142.7	1689.9
80°	272.0	287.2	379.9	440.7	562.3	521.3	342.0	816.1	724.9	656.6	284.2
82.5°	151.9	164.1	214.3	348.0	392.1	249.2	170.2	220.4	170.2	165.6	80.6
85°	0.0	7.6	138.3	215.8	159.6	54.7	71.4	72.9	50.1	47.1	32.0
87.5°	0.0	0.0	42.6	41.0	6.1	9.1	16.7	24.3	19.7	19.7	16.7
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: P382616

CATALOG NUMBER: GLEON-SA0A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2	2942.2
2.5°	2999.9	2917.8	2762.8	2610.8	2483.2	2378.3	2284.2	2246.1	2215.8	2211.2	2186.9
5°	3133.6	2968.0	2671.7	2428.5	2265.9	2150.4	2051.6	1990.8	1943.7	1925.5	1908.7
7.5°	3335.8	3085.0	2659.5	2379.8	2185.3	1990.8	1808.4	1610.9	1487.8	1440.6	1413.3
10°	3582.0	3240.0	2705.1	2366.2	2025.7	1615.5	1313.0	1062.2	960.4	927.0	917.9
12.5°	3869.2	3433.0	2784.1	2281.1	1685.4	1147.4	905.7	820.6	797.9	787.3	787.3
15°	4199.0	3644.2	2840.3	2034.9	1246.1	867.7	784.2	744.7	720.4	706.7	708.2
17.5°	4536.4	3850.9	2813.0	1677.7	919.4	772.0	709.7	667.2	633.7	620.0	617.0
20°	4876.7	4042.5	2661.0	1249.2	778.1	700.6	630.7	583.5	550.2	536.5	533.4
22.5°	5229.3	4205.0	2393.5	916.4	699.0	621.5	553.2	506.0	474.2	462.0	455.9
25°	5572.8	4337.3	2019.7	741.6	624.6	547.1	481.7	437.6	408.8	396.7	395.2
27.5°	5893.4	4420.8	1586.6	655.0	559.2	480.2	421.0	381.5	357.2	348.0	346.5
30°	6182.2	4428.4	1173.2	591.2	501.5	422.5	367.8	332.8	311.5	302.4	299.4
32.5°	6474.0	4364.6	854.0	533.4	448.4	372.3	319.1	291.8	276.6	269.0	269.0
35°	6749.1	4217.2	665.6	483.3	396.7	323.7	281.1	261.4	252.3	244.7	244.7
37.5°	7018.0	4005.9	565.4	439.2	348.0	282.6	247.7	235.6	227.9	220.4	220.4
40°	7291.6	3740.0	513.7	398.1	308.5	250.8	220.4	209.7	202.1	196.0	194.5
42.5°	7627.4	3433.0	480.2	360.1	273.5	221.9	194.5	182.4	176.2	170.2	167.2
45°	8016.4	3168.6	452.9	322.2	244.7	197.6	168.7	156.5	147.4	139.8	138.3
47.5°	8577.2	2977.1	416.4	281.1	217.3	171.7	145.9	132.2	118.5	110.9	109.5
50°	9293.0	2819.0	369.3	244.7	189.9	145.9	121.6	104.9	92.7	85.1	85.1
52.5°	9648.6	2612.3	326.7	212.8	159.6	123.1	98.7	79.0	72.9	65.3	65.3
55°	9791.5	2454.3	284.2	180.8	132.2	101.8	77.5	60.8	56.3	51.7	50.1
57.5°	10192.7	2408.7	247.7	153.5	109.5	80.6	59.2	45.6	42.6	36.5	36.5
60°	10838.6	2431.5	214.3	130.7	88.1	62.3	44.1	34.9	32.0	25.8	25.8
62.5°	11536.1	2402.6	180.8	112.4	68.4	45.6	30.4	25.8	25.8	15.2	13.7
65°	11669.9	2139.8	155.0	92.7	53.2	33.4	19.7	16.7	22.8	3.1	0.0
67.5°	10830.9	1659.6	133.8	71.4	39.5	25.8	15.2	7.6	19.7	0.0	0.0
70°	8660.8	1054.7	107.9	51.7	30.4	21.2	12.2	3.1	15.2	0.0	0.0
72.5°	6124.5	612.4	85.1	36.5	25.8	16.7	9.1	0.0	9.1	0.0	0.0
75°	3097.2	326.7	53.2	27.4	19.7	12.2	6.1	0.0	1.5	0.0	0.0
77.5°	670.2	151.9	33.4	19.7	13.7	7.6	3.1	0.0	0.0	0.0	0.0
80°	145.9	66.9	21.2	12.2	7.6	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	53.2	34.9	10.6	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.9	18.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.2	6.1	1.5	1.5	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)