

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: P324922

Luminaire Tested: **GLEON-SA8B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27561 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

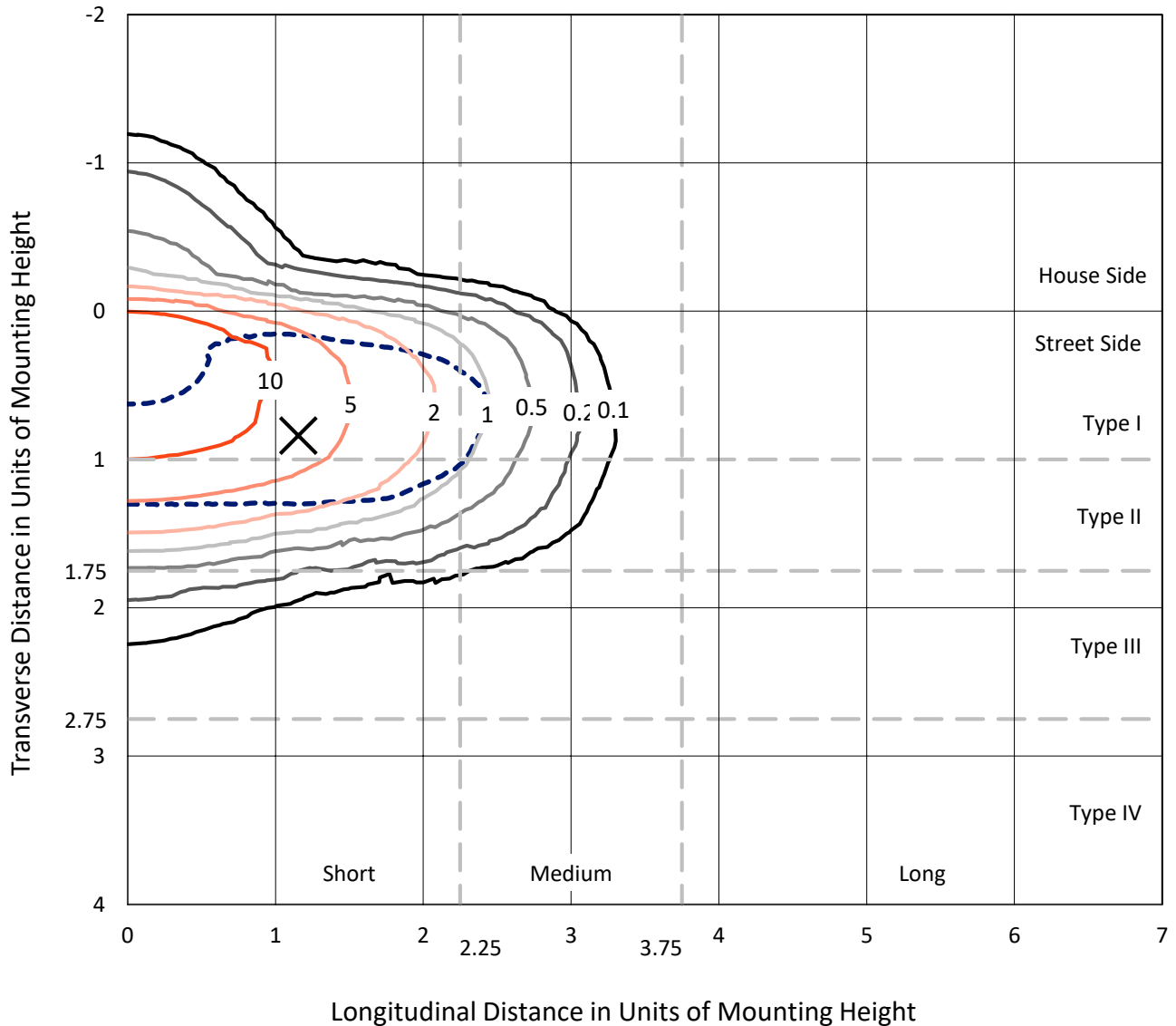
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

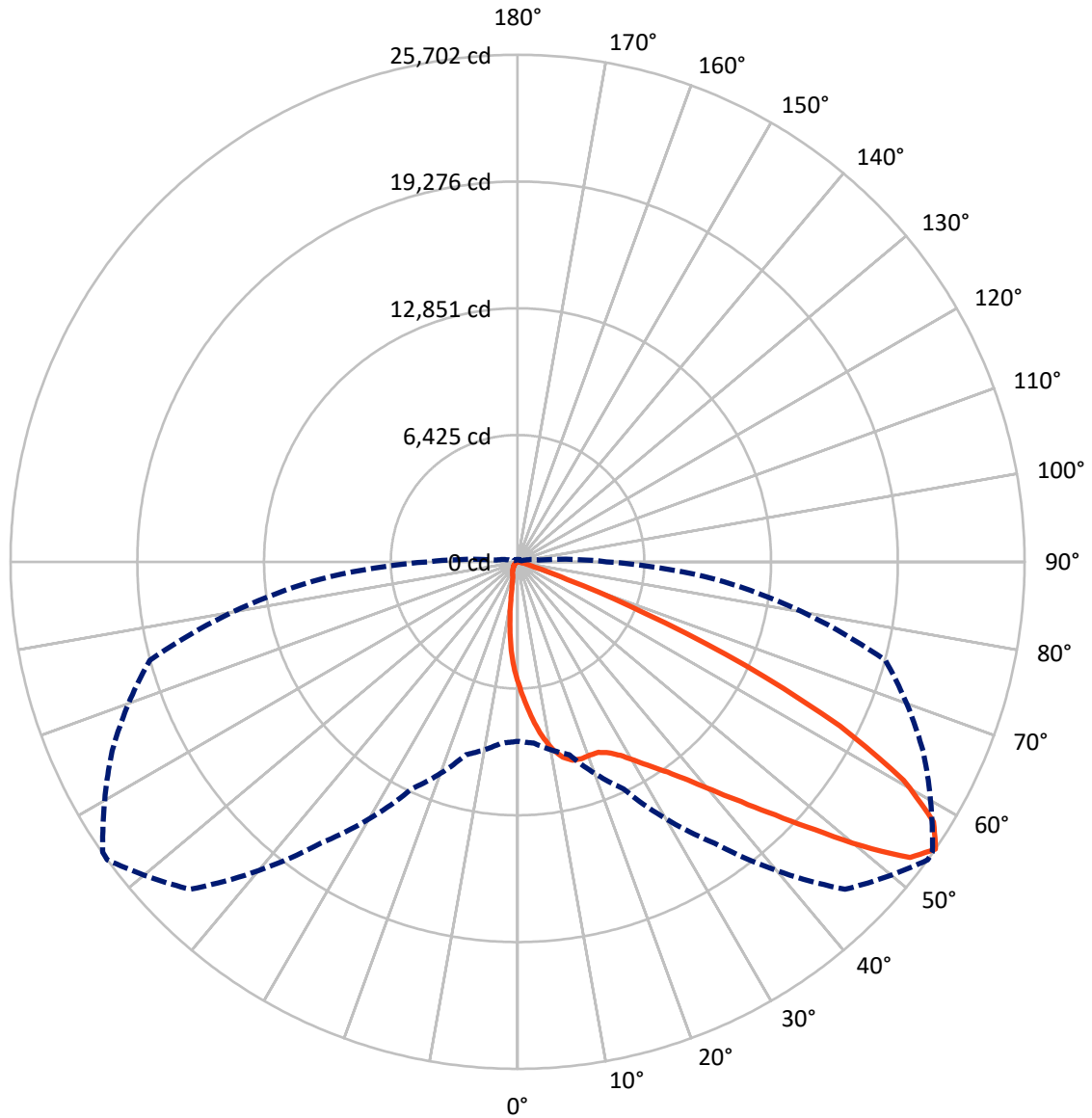
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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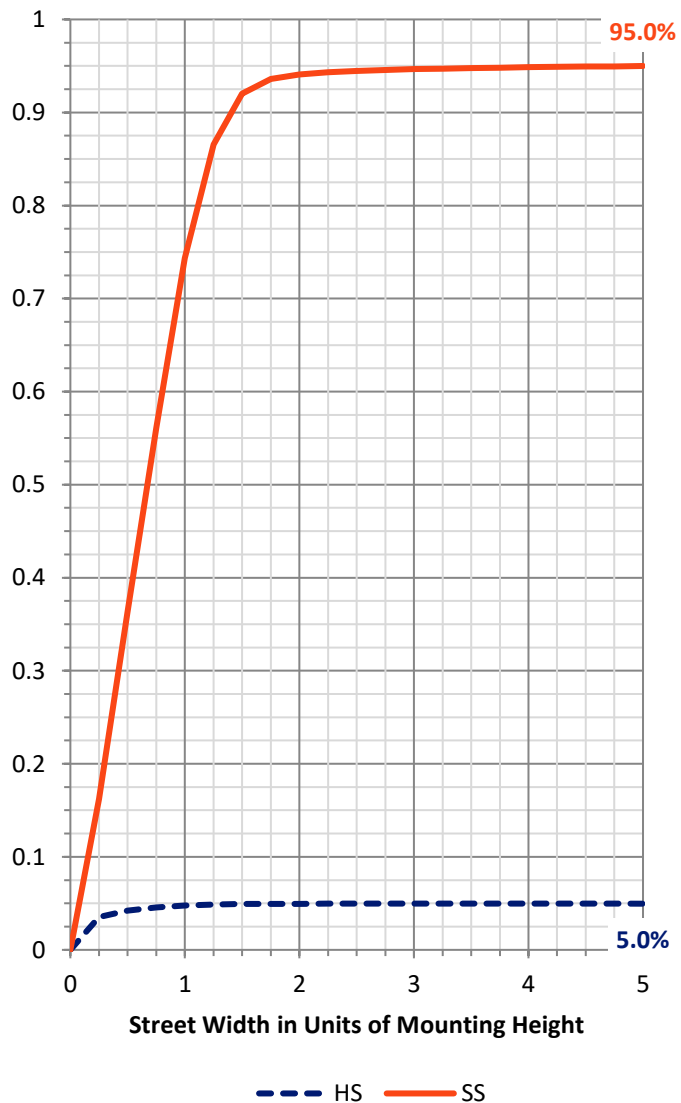
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1375.1	0.0	1375.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26185.9	0.0	26185.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	27561.0	0.0	27561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.4	2.1
10°-20°	1558.9	5.7
20°-30°	2661.6	9.7
30°-40°	4271.4	15.5
40°-50°	6825.7	24.8
50°-60°	7313.9	26.5
60°-70°	3755.2	13.6
70°-80°	568.8	2.1
80°-90°	37.0	0.1
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°	27561.0	100.0
0°-180°	27561.0	100.0

Coefficient of Utilization



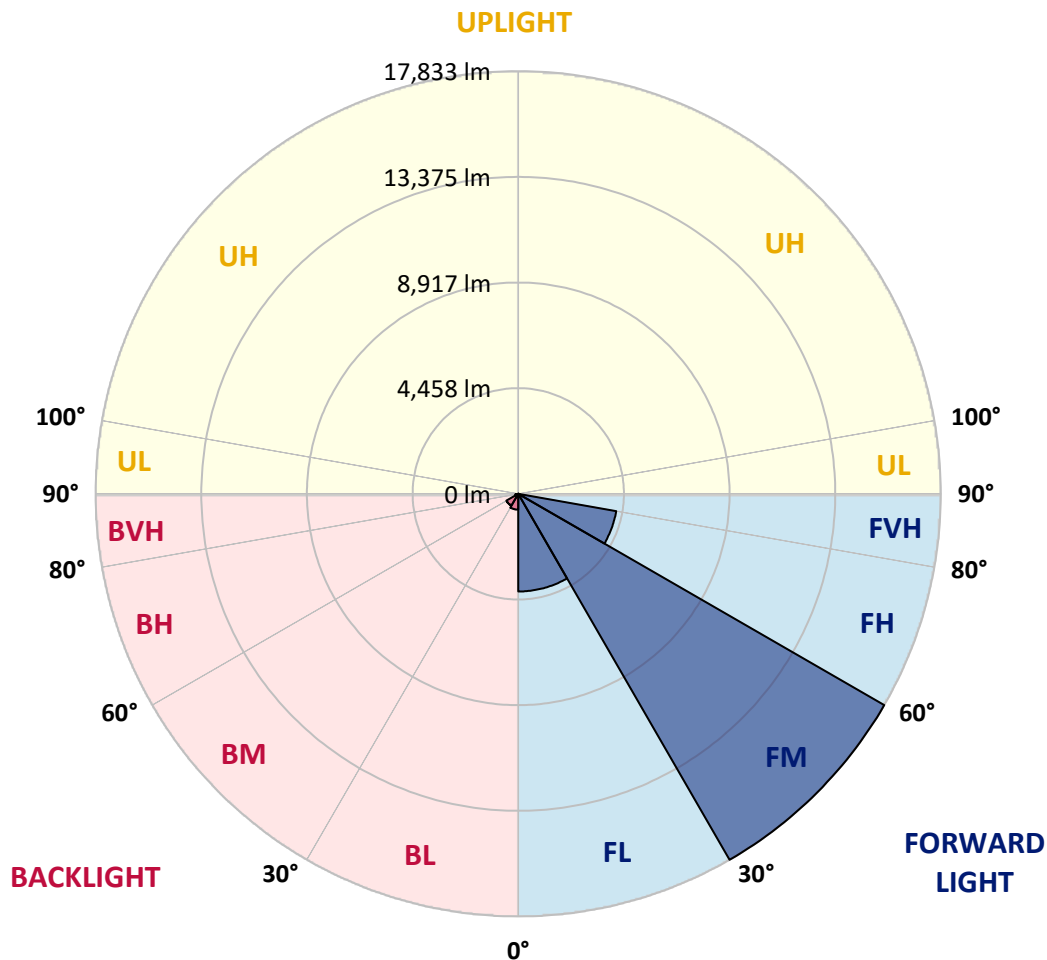
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.9	14.9			
FM (30°-60°)	17833.2	64.7			
FH (60°-80°)	4197.3	15.2			G2/5000
FVH (80°-90°)	35.5	0.1			G1/100
BL (0°-30°)	669.0	2.4	B2/1000		
BM (30°-60°)	577.8	2.1	B1/1000		
BH (60°-80°)	126.7	0.5	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6
2.5°	7746.0	7630.6	7634.2	7581.8	7390.2	7240.2	7084.3	7047.4	6804.6	6549.9	6304.7
5°	9085.1	9000.6	8980.3	8879.2	8612.5	8330.5	8028.1	7957.9	7483.0	6961.7	6448.7
7.5°	9773.0	9774.2	9757.5	9720.6	9554.0	9280.3	8911.3	8837.5	8191.2	7409.2	6598.7
10°	9573.1	9618.3	9711.1	9833.7	9961.1	9926.6	9649.2	9582.6	8880.3	7882.9	6765.3
12.5°	9106.5	9112.4	9216.0	9417.1	9783.7	10159.8	10164.6	10142.0	9538.5	8378.1	6948.6
15°	8874.4	8897.0	8935.1	9064.8	9412.4	10014.6	10445.5	10477.6	10142.0	8904.1	7143.8
17.5°	9026.7	9058.9	9026.7	9042.2	9243.4	9784.9	10494.3	10576.4	10669.3	9424.3	7328.3
20°	9439.8	9469.5	9412.4	9349.3	9388.6	9718.3	10459.8	10570.5	11082.3	9886.1	7483.0
22.5°	9996.8	10008.7	9921.8	9818.2	9789.7	9944.4	10488.3	10602.6	11413.2	10303.9	7580.6
25°	10609.8	10620.5	10512.2	10393.1	10325.3	10388.4	10722.8	10808.5	11704.8	10702.6	7636.5
27.5°	11277.5	11287.0	11151.3	11004.9	10926.4	10928.7	11109.7	11201.3	12015.4	11157.3	7681.8
30°	11983.3	11978.5	11853.5	11650.0	11550.0	11547.7	11666.7	11759.5	12465.3	11740.5	7743.7
32.5°	12776.0	12766.5	12589.1	12336.8	12223.7	12240.4	12346.3	12399.9	13023.5	12361.8	7854.4
35°	13819.8	13792.4	13524.6	13211.6	13003.3	12997.4	13086.6	13129.5	13735.3	13114.0	8038.8
37.5°	15174.3	15149.3	14786.3	14331.6	14038.8	13929.3	14035.2	14090.0	14750.6	14079.3	8335.2
40°	16509.7	16484.8	16269.3	15852.7	15401.6	15138.6	15221.9	15280.2	16018.2	15250.5	8708.9
42.5°	17431.0	17452.4	17527.4	17561.9	17139.4	16587.1	16625.2	16685.9	17350.1	16502.6	9136.2
45°	17673.8	17720.2	18143.9	18975.9	19134.2	18703.4	18304.6	18337.9	18703.4	17754.7	9563.5
47.5°	16944.2	17029.9	17847.6	19394.9	20735.1	21039.8	20285.2	20241.1	20001.9	18767.6	9867.0
50°	15286.2	15364.7	16424.1	18712.9	21220.7	23270.3	22658.5	22528.8	21141.0	19373.5	9974.2
52.5°	12886.7	12981.9	13842.4	16565.7	20305.4	24265.3	24905.7	24797.4	21976.5	19421.1	9992.0
55°	9100.5	9216.0	10126.5	12696.2	17404.8	23473.8	25701.9	25669.8	22670.4	19294.9	10030.1
57.5°	5114.4	5197.8	6179.7	8138.8	12747.4	20445.9	24870.0	25083.0	23089.4	19075.9	10087.2
60°	2271.0	2293.6	2801.8	4051.6	7462.8	15625.4	22488.3	22847.7	22729.9	18783.1	10183.6
62.5°	1259.3	1240.2	1240.2	1684.2	3243.4	9673.0	18337.9	18931.9	21195.7	18436.7	10188.4
65°	986.7	968.9	917.7	924.8	1235.5	4293.2	12698.6	13754.4	18282.0	17421.5	9845.6
67.5°	836.7	821.3	770.1	749.8	767.7	1416.4	6977.2	8073.4	13872.2	14782.7	8528.0
70°	707.0	696.3	670.1	645.1	599.9	699.9	2669.7	3414.8	8548.3	9833.7	5821.4
72.5°	568.9	564.2	573.7	552.3	497.5	466.6	912.9	1105.7	3839.7	4388.4	2398.3
75°	490.4	488.0	492.8	471.3	409.4	324.9	464.2	507.0	1083.1	1073.6	485.6
77.5°	319.0	322.6	408.3	398.7	352.3	216.6	240.4	259.5	328.5	246.4	147.6
80°	203.5	201.1	207.1	330.9	316.6	165.4	120.2	126.2	158.3	121.4	71.4
82.5°	123.8	121.4	135.7	154.7	159.5	115.5	73.8	75.0	98.8	78.6	38.1
85°	10.7	14.3	82.1	76.2	54.8	35.7	35.7	38.1	52.4	46.4	21.4
87.5°	0.0	0.0	14.3	21.4	11.9	13.1	13.1	14.3	20.2	20.2	10.7
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°	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6	6172.6
2.5°	6177.3	6053.5	5803.6	5563.2	5359.6	5163.2	4939.5	4718.1	4614.5	4572.9	4530.0
5°	6188.0	5933.3	5417.9	4899.0	4361.0	3876.6	3463.6	3039.9	2828.0	2735.2	2692.3
7.5°	6202.3	5814.3	4981.1	4109.9	3243.4	2586.4	2012.7	1643.7	1484.2	1459.2	1397.3
10°	6204.7	5670.3	4474.1	3238.6	2174.6	1559.2	1199.8	1009.3	939.1	927.2	907.0
12.5°	6209.5	5500.1	3911.1	2398.3	1449.7	1042.6	867.7	804.6	785.6	784.4	784.4
15°	6223.7	5321.5	3326.7	1728.2	1041.5	826.0	761.8	736.8	729.6	733.2	732.0
17.5°	6223.7	5110.9	2753.0	1287.8	841.5	742.7	707.0	690.3	688.0	691.5	692.7
20°	6178.5	4855.0	2226.9	1002.2	746.3	689.1	657.0	641.5	635.6	638.0	639.2
22.5°	6070.2	4540.7	1798.4	829.6	683.2	640.3	605.8	582.0	572.5	573.7	573.7
25°	5901.2	4168.2	1406.9	717.7	632.0	588.0	547.5	520.1	514.2	513.0	515.4
27.5°	5684.6	3756.4	1120.0	632.0	571.3	529.7	489.2	466.6	461.8	463.0	464.2
30°	5471.5	3329.1	883.2	559.4	503.5	464.2	433.2	422.5	422.5	426.1	427.3
32.5°	5276.3	2918.5	698.7	496.3	442.8	407.1	389.2	388.0	394.0	396.3	397.5
35°	5108.5	2538.8	578.5	447.5	395.2	364.2	358.3	363.0	370.2	374.9	376.1
37.5°	4989.5	2199.6	505.8	407.1	358.3	333.3	332.1	341.6	351.1	361.8	364.2
40°	4939.5	1912.7	455.9	371.4	328.5	309.5	305.9	319.0	336.8	352.3	354.7
42.5°	4897.8	1678.2	413.0	336.8	304.7	277.3	276.1	292.8	314.2	329.7	333.3
45°	4862.1	1490.2	373.7	299.9	273.8	238.0	241.6	263.0	279.7	296.4	299.9
47.5°	4788.3	1335.4	330.9	260.7	226.1	203.5	210.7	229.7	242.8	267.8	271.4
50°	4656.2	1209.3	286.8	213.1	184.5	176.2	186.9	200.0	216.6	238.0	240.4
52.5°	4566.9	1114.1	248.8	178.5	152.4	154.7	165.4	170.2	179.7	188.1	185.7
55°	4515.8	1061.7	217.8	154.7	129.7	136.9	139.3	133.3	128.5	120.2	116.6
57.5°	4509.8	1014.1	194.0	134.5	114.3	117.8	109.5	89.3	72.6	63.1	60.7
60°	4500.3	955.8	175.0	113.1	101.2	96.4	78.6	48.8	34.5	32.1	32.1
62.5°	4396.7	865.3	160.7	95.2	85.7	72.6	45.2	22.6	19.0	20.2	20.2
65°	4067.0	739.1	146.4	77.4	67.8	52.4	22.6	13.1	7.1	8.3	8.3
67.5°	3457.6	589.2	130.9	59.5	51.2	33.3	13.1	6.0	0.0	0.0	0.0
70°	2315.0	365.4	110.7	41.7	33.3	20.2	9.5	1.2	0.0	0.0	0.0
72.5°	887.9	197.6	89.3	25.0	21.4	14.3	6.0	0.0	0.0	0.0	0.0
75°	200.0	129.7	61.9	17.9	15.5	9.5	2.4	0.0	0.0	0.0	0.0
77.5°	76.2	94.0	35.7	11.9	10.7	6.0	0.0	0.0	0.0	0.0	0.0
80°	36.9	55.9	16.7	7.1	6.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.0	21.4	7.1	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	10.7	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.6	1.2	1.2	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)