

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: P324923

Luminaire Tested: **GLEON-SA9B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324923
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-SA9B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 30745 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

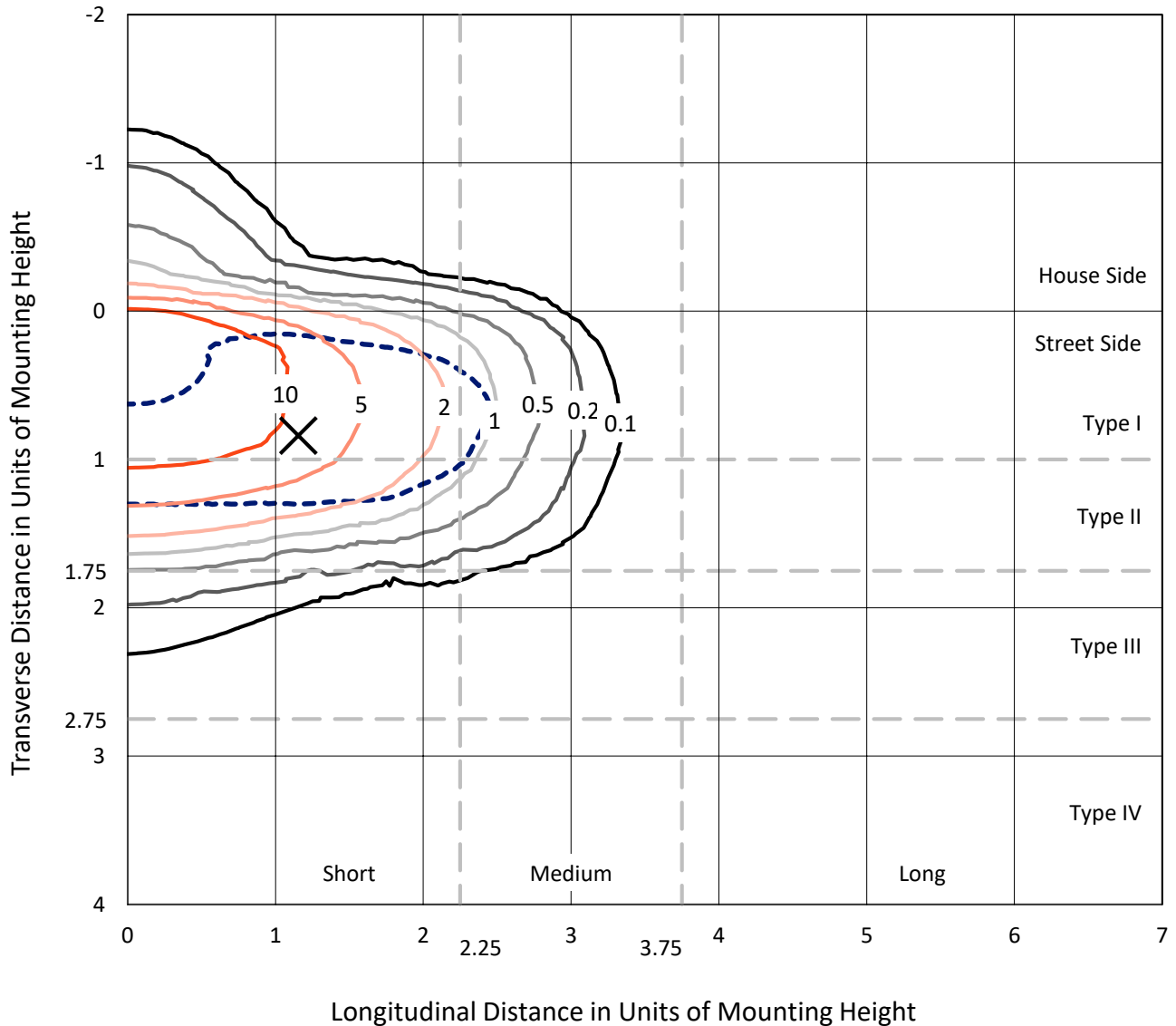
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

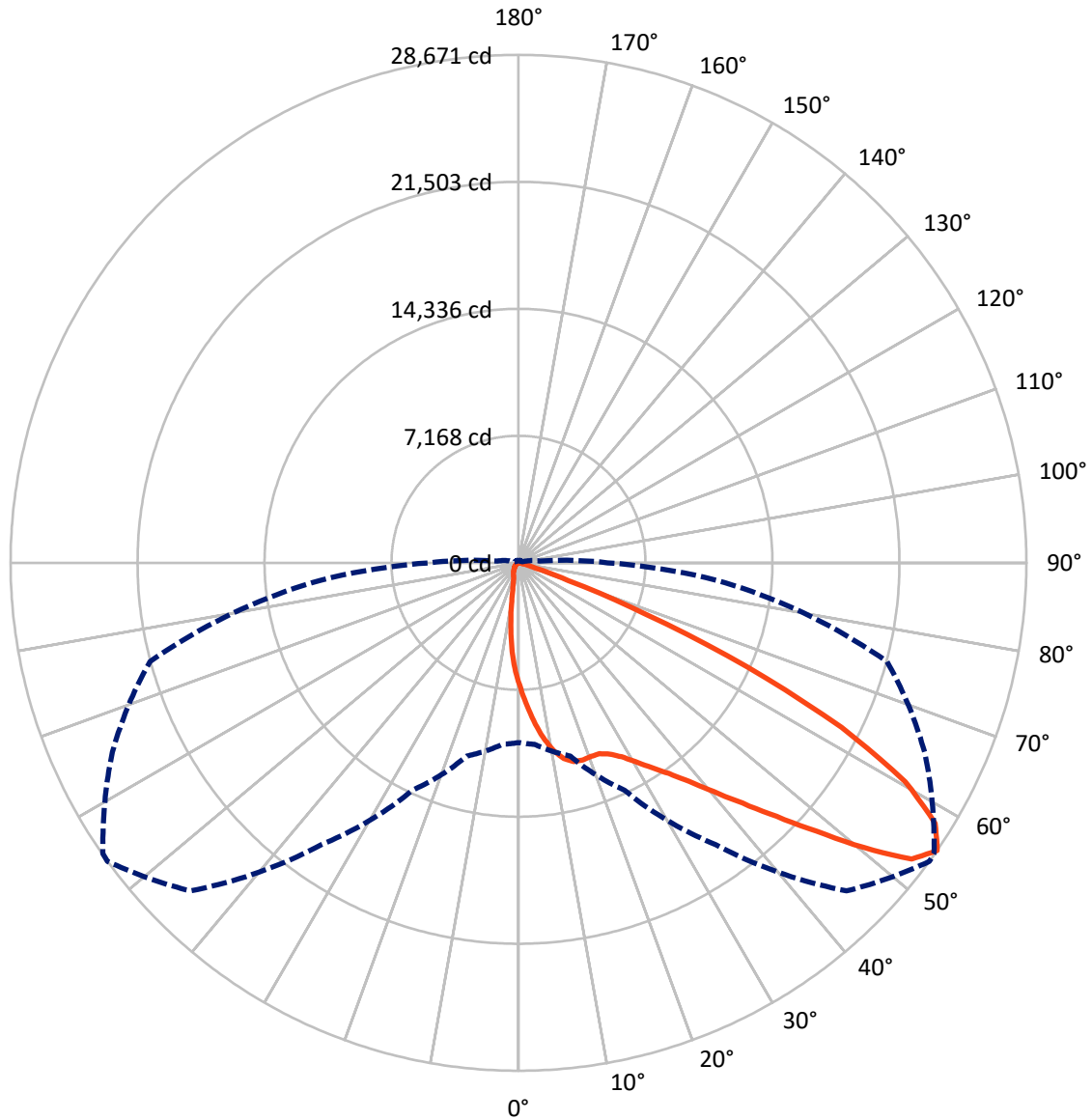
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 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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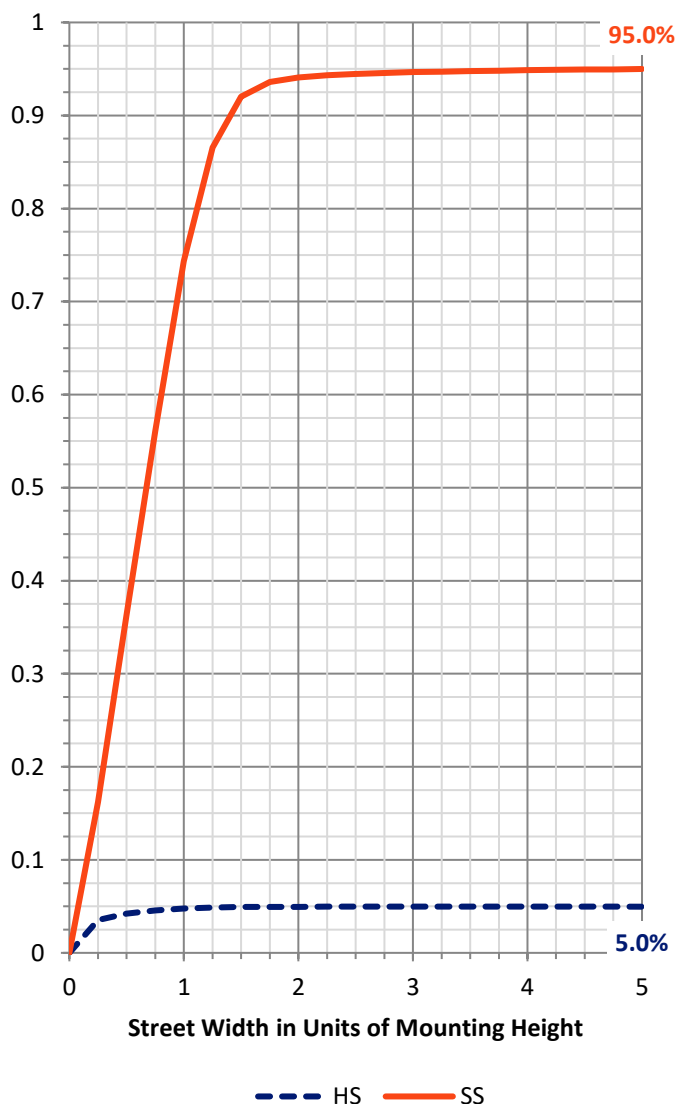
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1533.9	0.0	1533.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29211.0	0.0	29211.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	30745.0	0.0	30745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.1	2.1
10°-20°	1739.0	5.7
20°-30°	2969.1	9.7
30°-40°	4764.8	15.5
40°-50°	7614.3	24.8
50°-60°	8158.9	26.5
60°-70°	4189.0	13.6
70°-80°	634.5	2.1
80°-90°	41.3	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°	30745.0	100.0
0°-180°	30745.0	100.0

Coefficient of Utilization



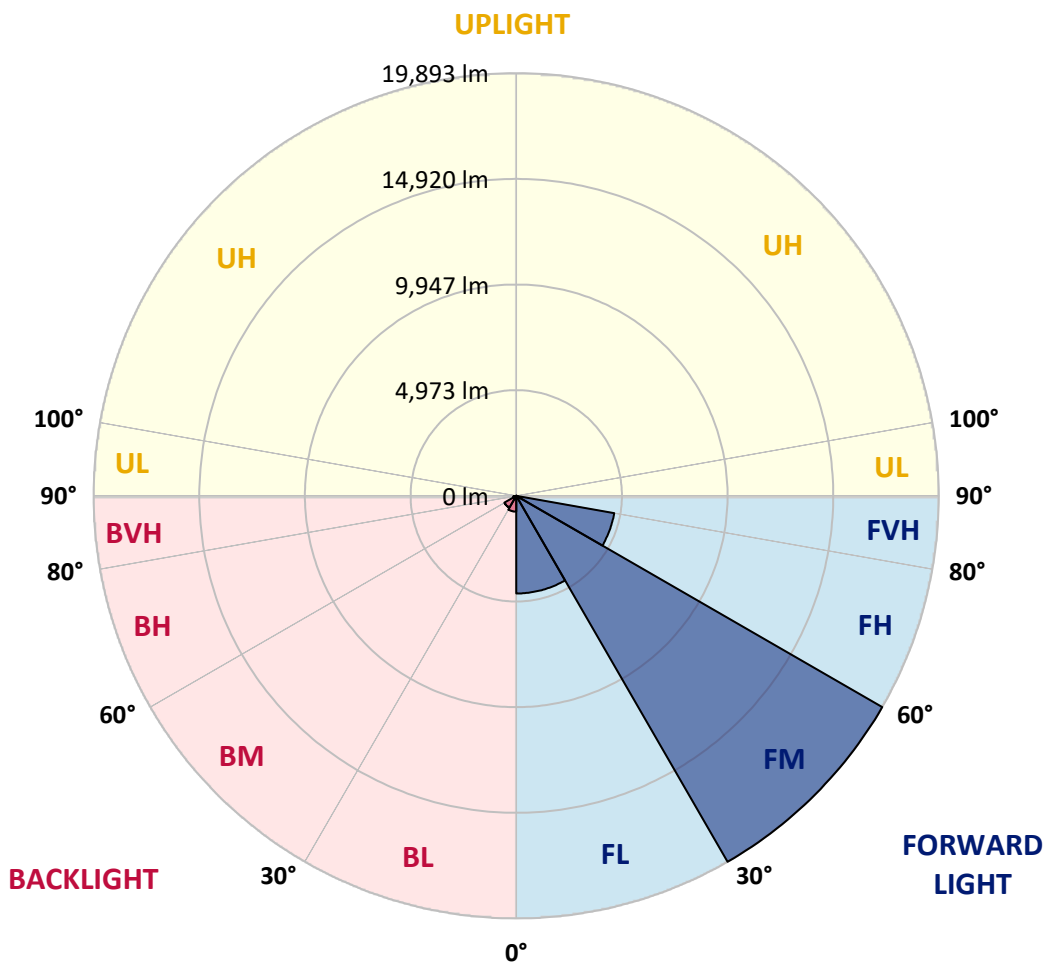
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4595.8	14.9			
FM (30°-60°)	19893.4	64.7			
FH (60°-80°)	4682.2	15.2			G2/5000
FVH (80°-90°)	39.7	0.1			G1/100
BL (0°-30°)	746.3	2.4	B2/1000		
BM (30°-60°)	644.6	2.1	B1/1000		
BH (60°-80°)	141.4	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	8640.9	8512.1	8516.1	8457.7	8243.9	8076.6	7902.7	7861.5	7590.7	7306.5	7033.0
5°	10134.6	10040.4	10017.8	9904.9	9607.5	9292.8	8955.6	8877.3	8347.5	7765.9	7193.7
7.5°	10902.1	10903.4	10884.8	10843.6	10657.7	10352.4	9940.8	9858.5	9137.5	8265.2	7361.0
10°	10679.0	10729.4	10833.0	10969.8	11111.8	11073.3	10764.0	10689.6	9906.2	8793.6	7546.9
12.5°	10158.5	10165.2	10280.7	10505.1	10914.0	11333.6	11338.9	11313.7	10640.5	9345.9	7751.3
15°	9899.6	9924.8	9967.3	10112.0	10499.7	11171.6	11652.2	11688.1	11313.7	9932.8	7969.1
17.5°	10069.6	10105.4	10069.6	10086.8	10311.2	10915.3	11706.7	11798.3	11901.8	10513.0	8174.9
20°	10530.3	10563.5	10499.7	10429.4	10473.2	10841.0	11668.2	11791.6	12362.6	11028.2	8347.5
22.5°	11151.7	11164.9	11068.0	10952.5	10920.6	11093.2	11700.0	11827.5	12731.7	11494.2	8456.4
25°	11835.5	11847.4	11726.6	11593.8	11518.1	11588.5	11961.6	12057.2	13057.0	11939.0	8518.8
27.5°	12580.3	12590.9	12439.6	12276.3	12188.6	12191.3	12393.1	12495.3	13403.5	12446.2	8569.2
30°	13367.7	13362.3	13222.9	12995.9	12884.4	12881.7	13014.5	13118.0	13905.4	13096.8	8638.3
32.5°	14251.9	14241.3	14043.5	13762.0	13635.9	13654.5	13772.6	13832.4	14528.1	13789.9	8761.7
35°	15416.4	15385.8	15087.1	14737.9	14505.5	14498.9	14598.5	14646.3	15322.1	14629.0	8967.5
37.5°	16927.3	16899.4	16494.5	15987.3	15660.7	15538.5	15656.7	15717.8	16454.6	15705.8	9298.1
40°	18417.0	18389.2	18148.8	17684.1	17180.9	16887.5	16980.4	17045.5	17868.7	17012.3	9715.1
42.5°	19444.7	19468.6	19552.3	19590.8	19119.4	18503.3	18545.8	18613.6	19354.4	18409.1	10191.7
45°	19715.6	19767.4	20240.0	21168.1	21344.7	20864.1	20419.3	20456.4	20864.1	19805.9	10668.4
47.5°	18901.7	18997.3	19909.4	21635.5	23130.5	23470.4	22628.6	22579.5	22312.6	20935.8	11006.9
50°	17052.1	17139.8	18321.4	20874.7	23672.2	25958.6	25276.1	25131.4	23583.3	21611.6	11126.4
52.5°	14375.4	14481.6	15441.6	18479.4	22651.2	27068.6	27782.9	27662.1	24515.3	21664.7	11146.4
55°	10151.9	10280.7	11296.4	14163.0	19415.5	26185.6	28671.2	28635.3	25289.4	21524.0	11188.8
57.5°	5705.3	5798.2	6893.6	9079.1	14220.1	22807.9	27743.1	27980.7	25756.8	21279.6	11252.6
60°	2533.3	2558.5	3125.5	4519.6	8324.9	17430.5	25086.3	25487.2	25355.8	20953.0	11360.1
62.5°	1404.7	1383.5	1383.5	1878.7	3618.1	10790.5	20456.4	21119.0	23644.3	20566.7	11365.4
65°	1100.7	1080.8	1023.7	1031.7	1378.2	4789.1	14165.6	15343.3	20394.0	19434.1	10983.0
67.5°	933.4	916.1	859.0	836.5	856.4	1580.0	7783.2	9006.0	15474.8	16490.5	9513.2
70°	788.7	776.7	747.5	719.6	669.2	780.7	2978.1	3809.3	9535.8	10969.8	6494.0
72.5°	634.7	629.3	640.0	616.1	555.0	520.5	1018.4	1233.5	4283.3	4895.4	2675.4
75°	547.0	544.4	549.7	525.8	456.7	362.5	517.8	565.6	1208.2	1197.6	541.7
77.5°	355.8	359.8	455.4	444.8	393.0	241.6	268.2	289.4	366.5	274.8	164.6
80°	227.0	224.4	231.0	369.1	353.2	184.6	134.1	140.7	176.6	135.4	79.7
82.5°	138.1	135.4	151.4	172.6	177.9	128.8	82.3	83.6	110.2	87.6	42.5
85°	11.9	15.9	91.6	85.0	61.1	39.8	39.8	42.5	58.4	51.8	23.9
87.5°	0.0	0.0	15.9	23.9	13.3	14.6	14.6	15.9	22.6	22.6	11.9
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°	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6	6885.6
2.5°	6891.0	6752.9	6474.0	6205.8	5978.8	5759.7	5510.1	5263.2	5147.6	5101.2	5053.4
5°	6902.9	6618.8	6043.9	5465.0	4864.8	4324.4	3863.7	3391.0	3154.7	3051.1	3003.3
7.5°	6918.8	6486.0	5556.6	4584.7	3618.1	2885.2	2245.2	1833.6	1655.7	1627.8	1558.8
10°	6921.5	6325.3	4991.0	3612.8	2425.8	1739.3	1338.4	1125.9	1047.6	1034.3	1011.7
12.5°	6926.8	6135.5	4362.9	2675.4	1617.2	1163.1	967.9	897.6	876.3	875.0	875.0
15°	6942.7	5936.3	3711.0	1927.9	1161.8	921.4	849.8	821.9	813.9	817.9	816.6
17.5°	6942.7	5701.3	3071.1	1436.6	938.7	828.5	788.7	770.1	767.4	771.4	772.7
20°	6892.3	5415.8	2484.2	1118.0	832.5	768.8	732.9	715.7	709.0	711.7	713.0
22.5°	6771.5	5065.3	2006.2	925.4	762.1	714.3	675.8	649.3	638.6	640.0	640.0
25°	6582.9	4649.7	1569.4	800.6	705.0	655.9	610.8	580.2	573.6	572.3	574.9
27.5°	6341.3	4190.3	1249.4	705.0	637.3	590.8	545.7	520.5	515.2	516.5	517.8
30°	6103.6	3713.7	985.2	624.0	561.6	517.8	483.3	471.3	471.3	475.3	476.7
32.5°	5885.9	3255.6	779.4	553.7	493.9	454.1	434.2	432.8	439.5	442.1	443.5
35°	5698.6	2832.1	645.3	499.2	440.8	406.3	399.6	405.0	412.9	418.2	419.6
37.5°	5565.9	2453.7	564.3	454.1	399.6	371.8	370.4	381.1	391.7	403.6	406.3
40°	5510.1	2133.7	508.5	414.3	366.5	345.2	341.2	355.8	375.7	393.0	395.7
42.5°	5463.6	1872.1	460.7	375.7	339.9	309.4	308.0	326.6	350.5	367.8	371.8
45°	5423.8	1662.3	416.9	334.6	305.4	265.5	269.5	293.4	312.0	330.6	334.6
47.5°	5341.5	1489.7	369.1	290.8	252.3	227.0	235.0	256.3	270.9	298.7	302.7
50°	5194.1	1349.0	320.0	237.7	205.8	196.5	208.5	223.1	241.6	265.5	268.2
52.5°	5094.5	1242.8	277.5	199.2	170.0	172.6	184.6	189.9	200.5	209.8	207.1
55°	5037.4	1184.3	243.0	172.6	144.7	152.7	155.3	148.7	143.4	134.1	130.1
57.5°	5030.8	1131.2	216.4	150.0	127.5	131.4	122.2	99.6	81.0	70.4	67.7
60°	5020.2	1066.2	195.2	126.1	112.9	107.5	87.6	54.4	38.5	35.8	35.8
62.5°	4904.7	965.3	179.2	106.2	95.6	81.0	50.5	25.2	21.2	22.6	22.6
65°	4536.9	824.5	163.3	86.3	75.7	58.4	25.2	14.6	8.0	9.3	9.3
67.5°	3857.1	657.2	146.1	66.4	57.1	37.2	14.6	6.6	0.0	0.0	0.0
70°	2582.4	407.6	123.5	46.5	37.2	22.6	10.6	1.3	0.0	0.0	0.0
72.5°	990.5	220.4	99.6	27.9	23.9	15.9	6.6	0.0	0.0	0.0	0.0
75°	223.1	144.7	69.0	19.9	17.3	10.6	2.7	0.0	0.0	0.0	0.0
77.5°	85.0	104.9	39.8	13.3	11.9	6.6	0.0	0.0	0.0	0.0	0.0
80°	41.2	62.4	18.6	8.0	6.6	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.2	23.9	8.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	11.9	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.0	1.3	1.3	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)