

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: P324924

Luminaire Tested: **GLEON-SA0B-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324924
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-SA0B-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 34038 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

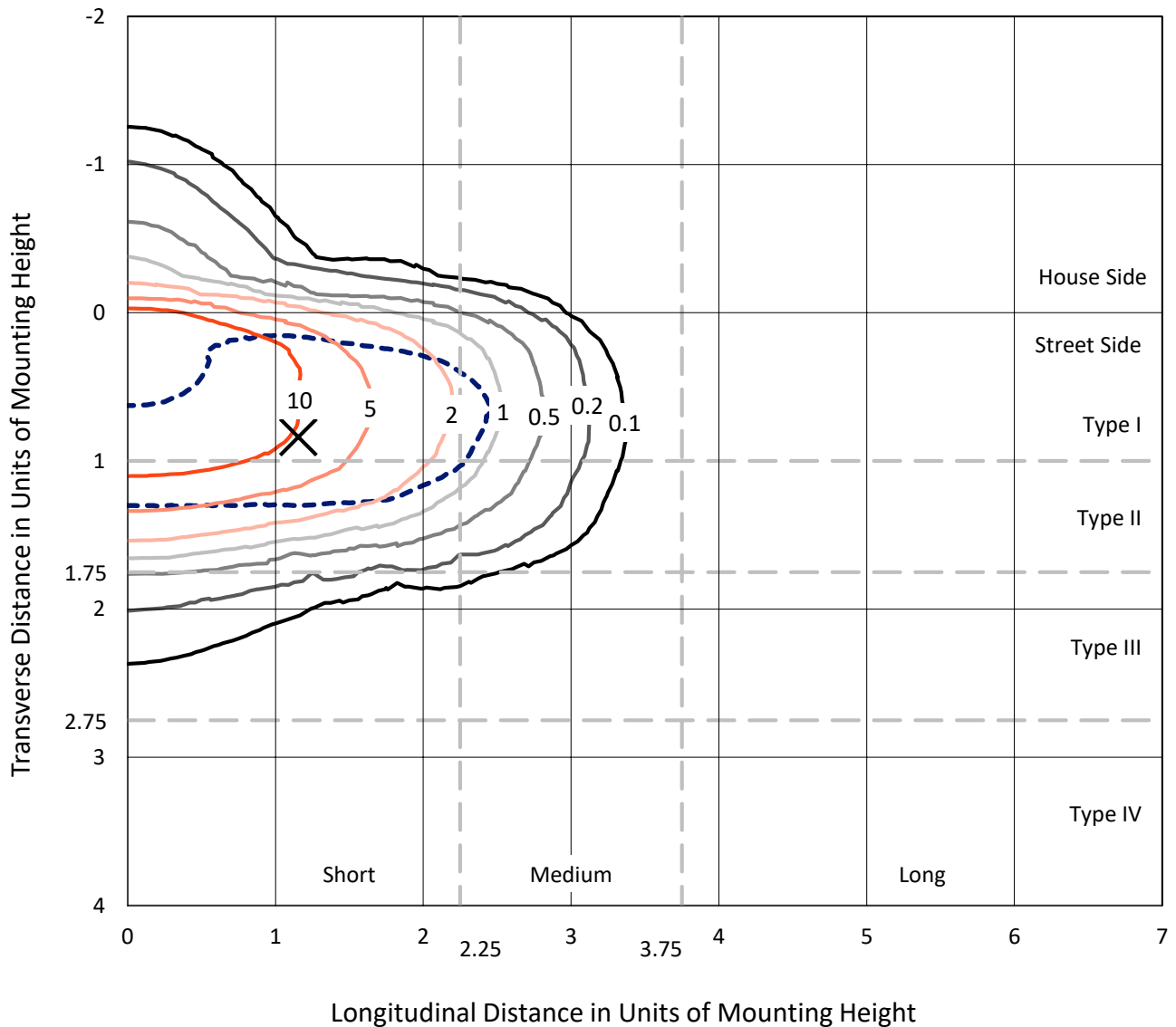
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

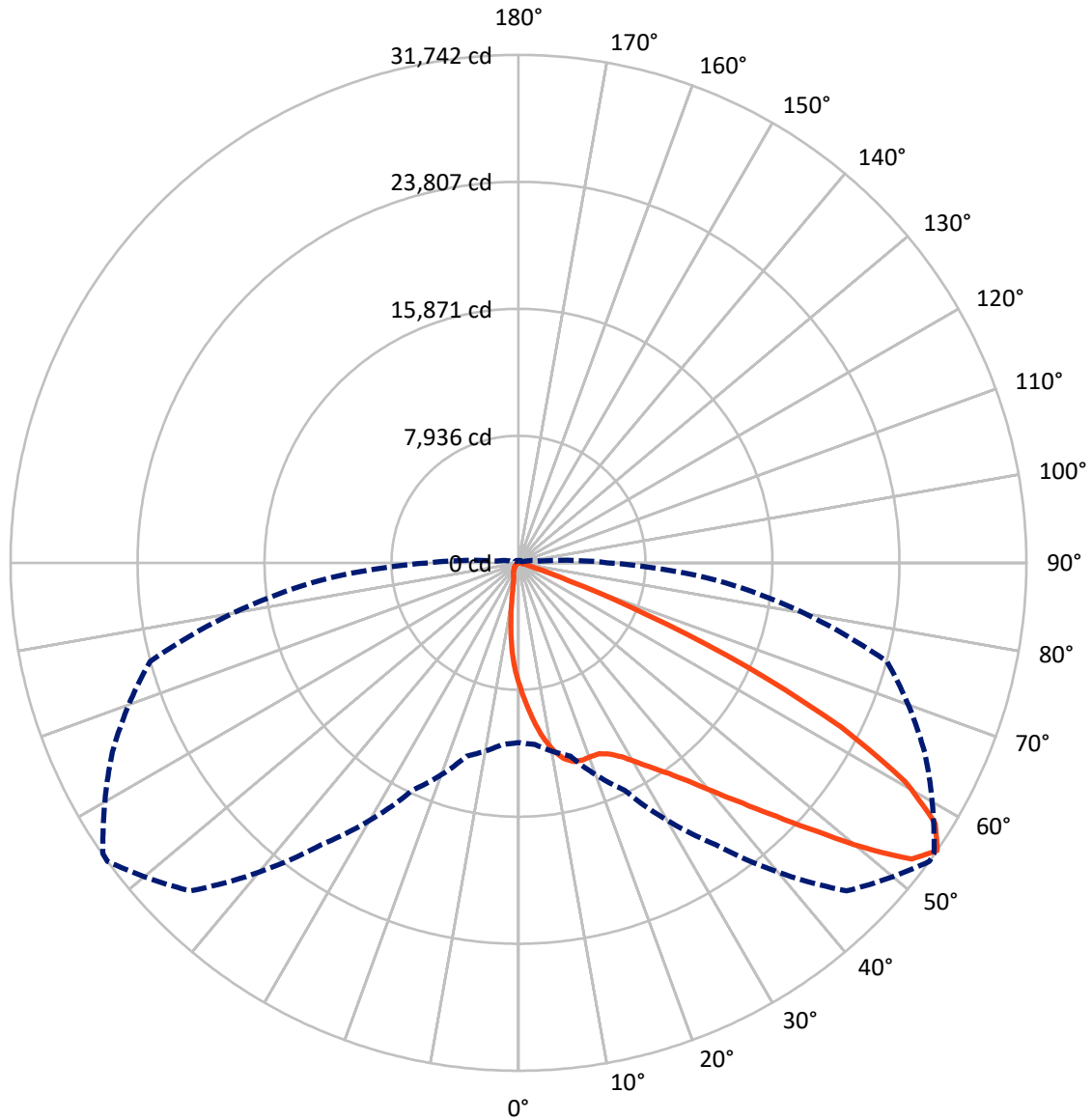
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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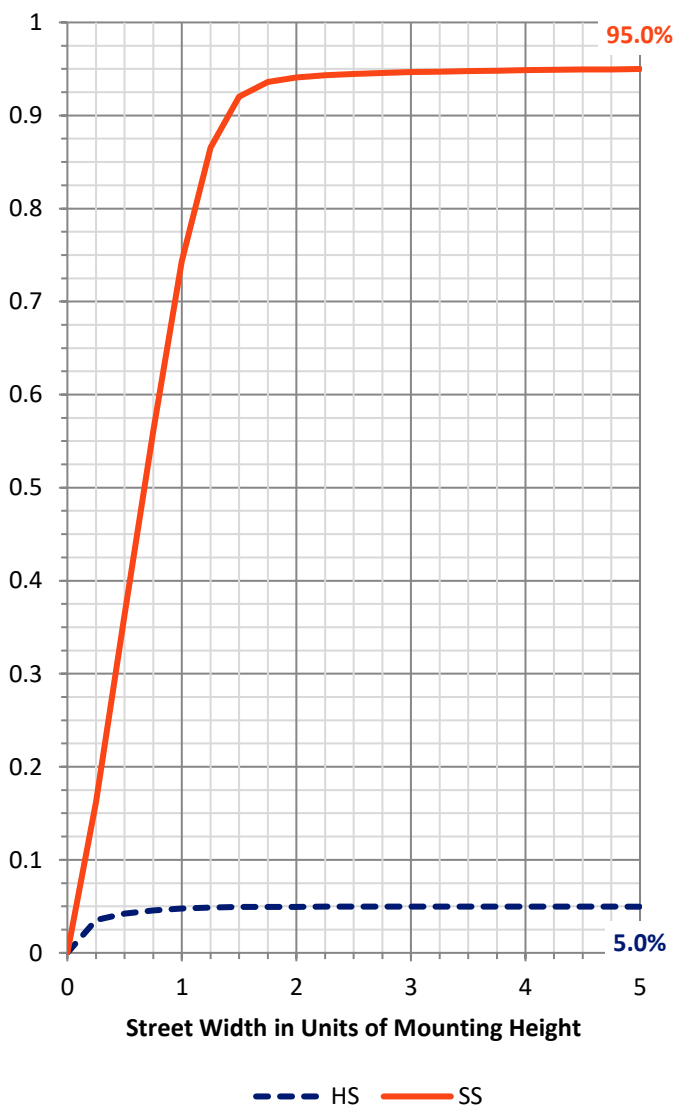
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.2	0.0	1698.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	32339.8	0.0	32339.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	34038.0	0.0	34038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.0	2.1
10°-20°	1925.3	5.7
20°-30°	3287.1	9.7
30°-40°	5275.2	15.5
40°-50°	8429.8	24.8
50°-60°	9032.7	26.5
60°-70°	4637.7	13.6
70°-80°	702.5	2.1
80°-90°	45.7	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°	34038.0	100.0
0°-180°	34038.0	100.0

Coefficient of Utilization



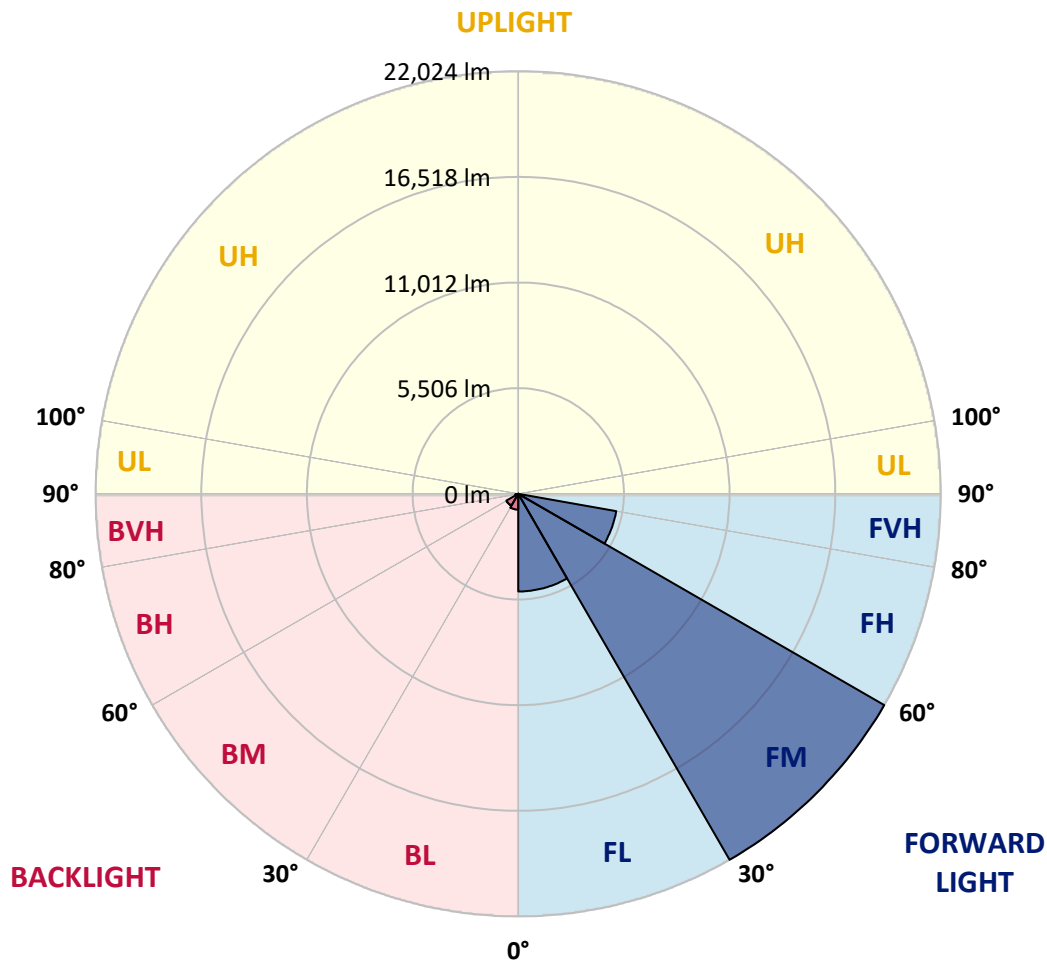
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5088.1	14.9			
FM (30°-60°)	22024.1	64.7			
FH (60°-80°)	5183.7	15.2			G3/7500
FVH (80°-90°)	43.9	0.1			G1/100
BL (0°-30°)	826.3	2.4	B2/1000		
BM (30°-60°)	713.6	2.1	B1/1000		
BH (60°-80°)	156.5	0.5	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1
2.5°	9566.4	9423.8	9428.2	9363.6	9126.9	8941.7	8749.1	8703.6	8403.7	8089.1	7786.3
5°	11220.1	11115.7	11090.8	10965.8	10636.5	10288.2	9914.8	9828.1	9241.6	8597.7	7964.2
7.5°	12069.7	12071.2	12050.6	12005.1	11799.3	11461.2	11005.5	10914.4	10116.2	9150.4	8149.4
10°	11822.8	11878.6	11993.3	12144.7	12302.0	12259.4	11916.9	11834.5	10967.3	9735.5	8355.2
12.5°	11246.6	11253.9	11381.8	11630.2	12083.0	12547.5	12553.3	12525.4	11780.2	10347.0	8581.6
15°	10959.9	10987.9	11034.9	11195.1	11624.3	12368.1	12900.3	12939.9	12525.4	10996.7	8822.6
17.5°	11148.1	11187.8	11148.1	11167.2	11415.6	12084.4	12960.5	13062.0	13176.6	11639.0	9050.5
20°	11658.2	11694.9	11624.3	11546.4	11594.9	12002.1	12917.9	13054.6	13686.7	12209.4	9241.6
22.5°	12346.1	12360.8	12253.5	12125.6	12090.3	12281.4	12953.2	13094.3	14095.3	12725.3	9362.1
25°	13103.1	13116.3	12982.6	12835.6	12751.8	12829.7	13242.8	13348.6	14455.5	13217.8	9431.2
27.5°	13927.7	13939.5	13771.9	13591.1	13494.1	13497.1	13720.5	13833.7	14839.1	13779.3	9487.0
30°	14799.4	14793.5	14639.2	14387.8	14264.4	14261.4	14408.4	14523.1	15394.8	14499.6	9563.5
32.5°	15778.4	15766.7	15547.6	15236.0	15096.4	15116.9	15247.8	15313.9	16084.2	15266.9	9700.2
35°	17067.6	17033.7	16703.0	16316.4	16059.2	16051.8	16162.1	16215.0	16963.2	16195.9	9928.0
37.5°	18740.4	18709.5	18261.2	17699.6	17338.0	17202.8	17333.6	17401.2	18217.1	17388.0	10294.0
40°	20389.6	20358.8	20092.7	19578.2	19021.1	18696.3	18799.2	18871.2	19782.5	18834.4	10755.6
42.5°	21527.4	21553.8	21646.4	21689.1	21167.2	20485.2	20532.2	20607.2	21427.4	20380.8	11283.3
45°	21827.2	21884.6	22407.9	23435.4	23630.9	23098.7	22606.3	22647.5	23098.7	21927.2	11811.0
47.5°	20926.2	21032.0	22041.9	23952.8	25607.9	25984.3	25052.3	24997.9	24702.5	23178.1	12185.9
50°	18878.5	18975.5	20283.8	23110.5	26207.7	28738.9	27983.4	27823.2	26109.2	23926.3	12318.2
52.5°	15915.1	16032.7	17095.5	20458.7	25077.3	29967.8	30758.6	30624.9	27141.1	23985.1	12340.2
55°	11239.2	11381.8	12506.3	15679.9	21495.0	28990.3	31742.0	31702.4	27998.1	23829.3	12387.2
57.5°	6316.4	6419.3	7632.0	10051.5	15743.1	25250.8	30714.5	30977.7	28515.5	23558.8	12457.8
60°	2804.7	2832.6	3460.3	5003.7	9216.6	19297.5	27773.2	28217.1	28071.6	23197.2	12576.9
62.5°	1555.2	1531.7	1531.7	2080.0	4005.6	11946.3	22647.5	23381.0	26176.8	22769.5	12582.7
65°	1218.6	1196.5	1133.3	1142.1	1525.8	5302.1	15682.9	16986.7	22578.4	21515.6	12159.4
67.5°	1033.4	1014.3	951.1	926.1	948.1	1749.2	8616.8	9970.7	17132.2	18256.7	10532.2
70°	873.1	859.9	827.6	796.7	740.9	864.3	3297.1	4217.3	10557.2	12144.7	7189.5
72.5°	702.6	696.8	708.5	682.1	614.4	576.2	1127.4	1365.6	4742.0	5419.7	2961.9
75°	605.6	602.7	608.6	582.1	505.7	401.3	573.3	626.2	1337.7	1325.9	599.7
77.5°	393.9	398.4	504.2	492.4	435.1	267.5	296.9	320.4	405.7	304.3	182.3
80°	251.4	248.4	255.8	408.6	391.0	204.3	148.5	155.8	195.5	149.9	88.2
82.5°	152.9	149.9	167.6	191.1	197.0	142.6	91.1	92.6	122.0	97.0	47.0
85°	13.2	17.6	101.4	94.1	67.6	44.1	44.1	47.0	64.7	57.3	26.5
87.5°	0.0	0.0	17.6	26.5	14.7	16.2	16.2	17.6	25.0	25.0	13.2
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°	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1	7623.1
2.5°	7629.0	7476.2	7167.5	6870.5	6619.2	6376.6	6100.3	5826.9	5699.0	5647.5	5594.6
5°	7642.3	7327.7	6691.2	6050.3	5385.9	4787.6	4277.5	3754.2	3492.6	3377.9	3325.0
7.5°	7659.9	7180.7	6151.7	5075.7	4005.6	3194.2	2485.7	2030.0	1833.0	1802.2	1725.7
10°	7662.8	7002.8	5525.5	3999.7	2685.6	1925.6	1481.7	1246.5	1159.8	1145.1	1120.1
12.5°	7668.7	6792.6	4830.2	2961.9	1790.4	1287.7	1071.6	993.7	970.2	968.7	968.7
15°	7686.4	6572.1	4108.5	2134.4	1286.2	1020.1	940.8	909.9	901.1	905.5	904.0
17.5°	7686.4	6312.0	3400.0	1590.5	1039.3	917.2	873.1	852.6	849.6	854.0	855.5
20°	7630.5	5995.9	2750.3	1237.7	921.7	851.1	811.4	792.3	785.0	787.9	789.4
22.5°	7496.7	5607.8	2221.1	1024.6	843.7	790.8	748.2	718.8	707.0	708.5	708.5
25°	7288.0	5147.8	1737.5	886.4	780.5	726.2	676.2	642.4	635.0	633.5	636.5
27.5°	7020.5	4639.2	1383.2	780.5	705.6	654.1	604.1	576.2	570.3	571.8	573.3
30°	6757.3	4111.4	1090.7	690.9	621.8	573.3	535.1	521.8	521.8	526.2	527.7
32.5°	6516.3	3604.3	862.9	613.0	546.8	502.7	480.7	479.2	486.6	489.5	491.0
35°	6309.0	3135.4	714.4	552.7	488.0	449.8	442.5	448.3	457.2	463.0	464.5
37.5°	6162.0	2716.5	624.7	502.7	442.5	411.6	410.1	421.9	433.6	446.9	449.8
40°	6100.3	2362.2	563.0	458.6	405.7	382.2	377.8	393.9	416.0	435.1	438.0
42.5°	6048.8	2072.6	510.1	416.0	376.3	342.5	341.0	361.6	388.1	407.2	411.6
45°	6004.7	1840.4	461.6	370.4	338.1	294.0	298.4	324.9	345.4	366.0	370.4
47.5°	5913.6	1649.3	408.6	321.9	279.3	251.4	260.2	283.7	299.9	330.7	335.1
50°	5750.4	1493.5	354.3	263.1	227.8	217.6	230.8	247.0	267.5	294.0	296.9
52.5°	5640.2	1375.9	307.2	220.5	188.2	191.1	204.3	210.2	222.0	232.3	229.3
55°	5577.0	1311.2	269.0	191.1	160.2	169.0	172.0	164.6	158.8	148.5	144.1
57.5°	5569.6	1252.4	239.6	166.1	141.1	145.5	135.2	110.2	89.7	77.9	75.0
60°	5557.9	1180.4	216.1	139.6	124.9	119.1	97.0	60.3	42.6	39.7	39.7
62.5°	5430.0	1068.7	198.4	117.6	105.8	89.7	55.9	27.9	23.5	25.0	25.0
65°	5022.8	912.8	180.8	95.5	83.8	64.7	27.9	16.2	8.8	10.3	10.3
67.5°	4270.2	727.6	161.7	73.5	63.2	41.2	16.2	7.3	0.0	0.0	0.0
70°	2859.0	451.3	136.7	51.4	41.2	25.0	11.8	1.5	0.0	0.0	0.0
72.5°	1096.6	244.0	110.2	30.9	26.5	17.6	7.3	0.0	0.0	0.0	0.0
75°	247.0	160.2	76.4	22.0	19.1	11.8	2.9	0.0	0.0	0.0	0.0
77.5°	94.1	116.1	44.1	14.7	13.2	7.3	0.0	0.0	0.0	0.0	0.0
80°	45.6	69.1	20.6	8.8	7.3	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.5	26.5	8.8	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.2	13.2	4.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	4.4	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)