

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: P383357

Luminaire Tested: **GLEON-SA6D-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383357
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-SA6D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA 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: 35388.6 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

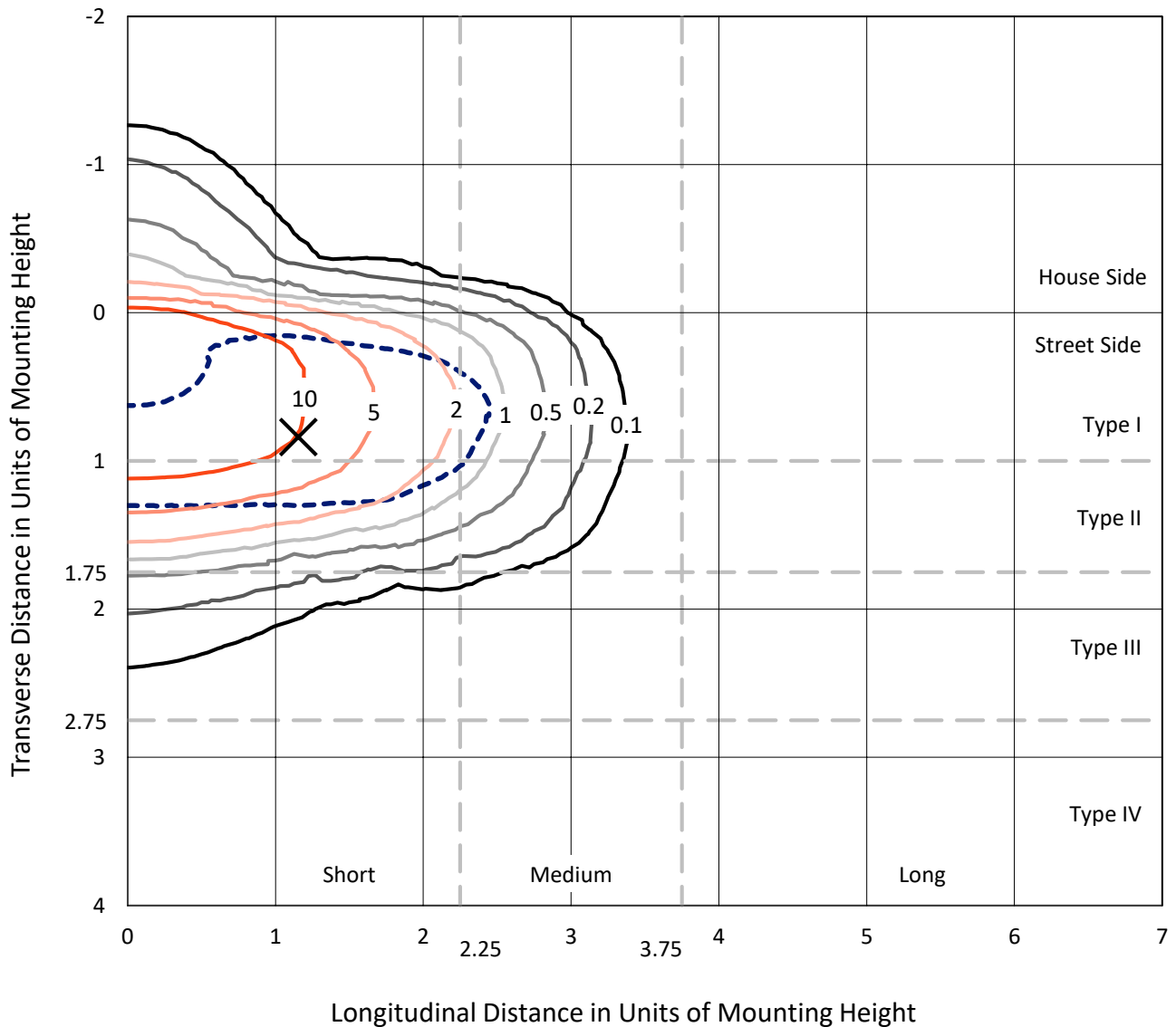
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

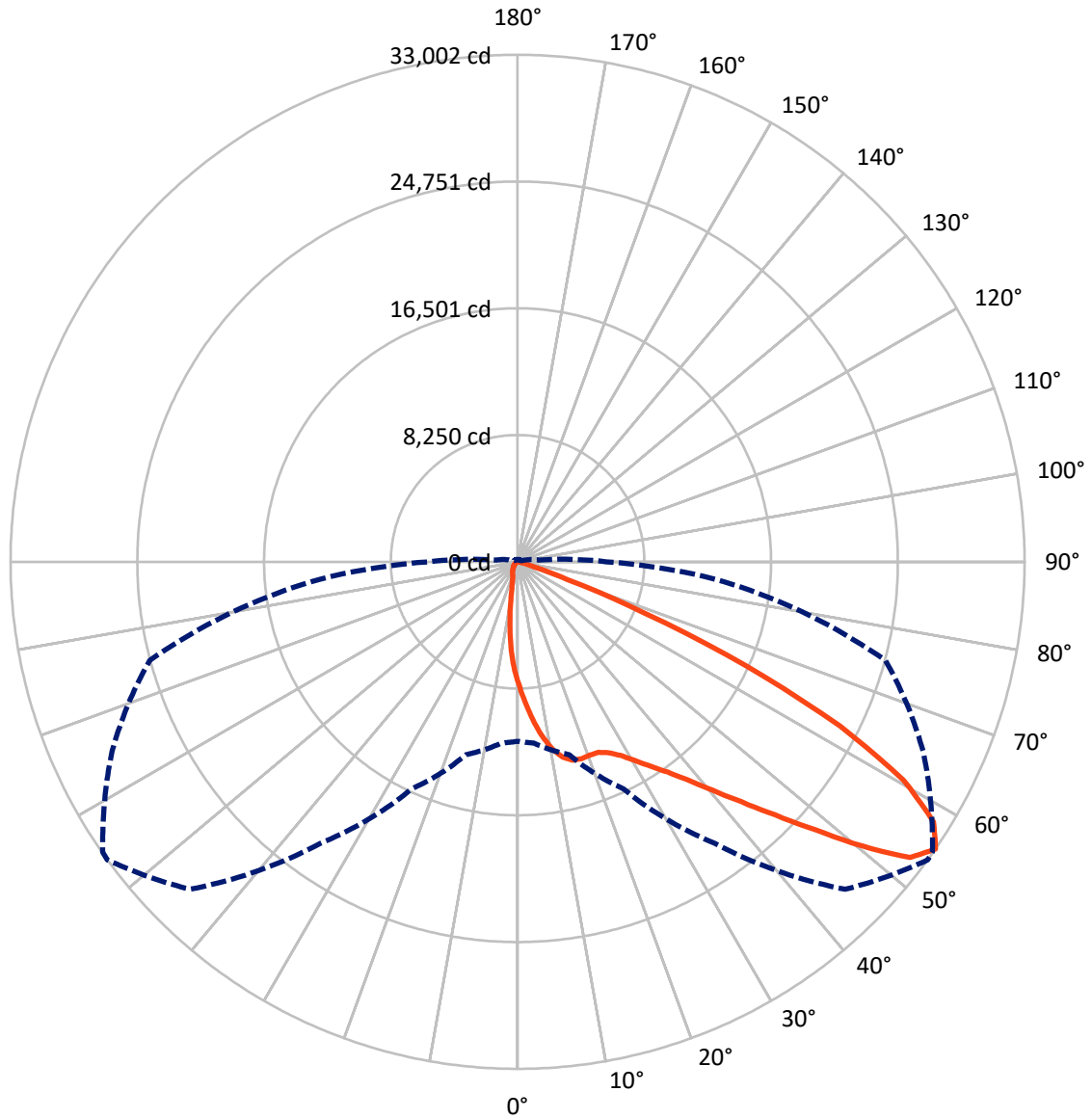
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.5 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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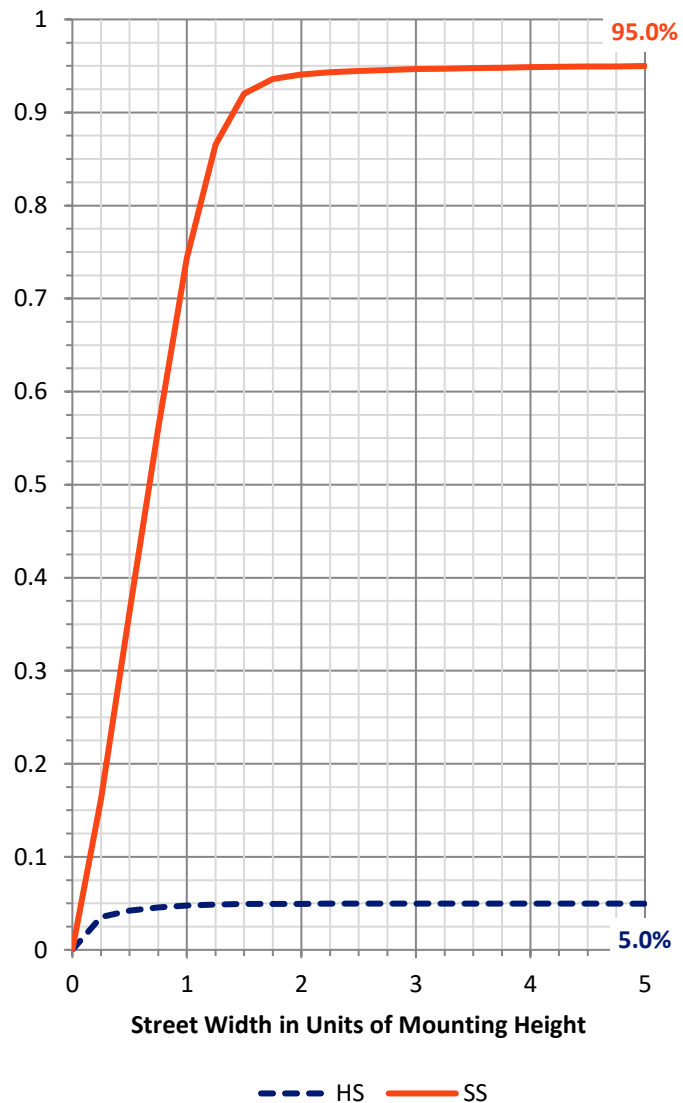
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.6	0.0	1765.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	33623.0	0.0	33623.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	35388.6	0.0	35388.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.9	2.1
10°-20°	2001.7	5.7
20°-30°	3417.5	9.7
30°-40°	5484.5	15.5
40°-50°	8764.3	24.8
50°-60°	9391.1	26.5
60°-70°	4821.7	13.6
70°-80°	730.4	2.1
80°-90°	47.6	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°	35388.6	100.0
0°-180°	35388.6	100.0

Coefficient of Utilization



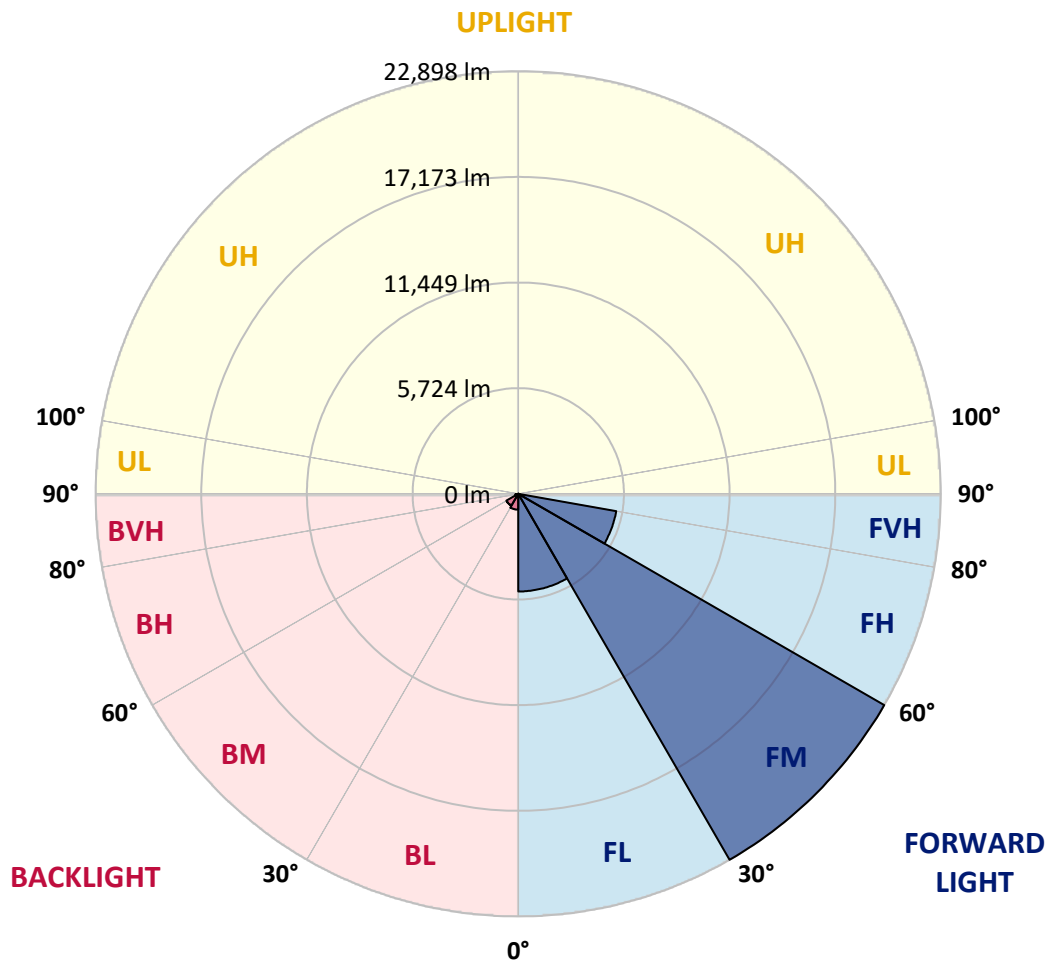
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5290.0	14.9			
FM (30°-60°)	22898.0	64.7			
FH (60°-80°)	5389.4	15.2			G3/7500
FVH (80°-90°)	45.6	0.1			G1/100
BL (0°-30°)	859.0	2.4	B2/1000		
BM (30°-60°)	742.0	2.1	B1/1000		
BH (60°-80°)	162.7	0.5	B1/500		G1/500
BVH (80°-90°)	1.9	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°	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6
2.5°	9945.9	9797.7	9802.3	9735.0	9489.0	9296.5	9096.3	9048.9	8737.2	8410.1	8095.2
5°	11665.3	11556.8	11530.8	11400.9	11058.6	10696.4	10308.2	10218.1	9608.3	8938.9	8280.2
7.5°	12548.6	12550.2	12528.8	12481.4	12267.5	11915.9	11442.2	11347.5	10517.5	9513.5	8472.7
10°	12291.9	12350.0	12469.1	12626.6	12790.1	12745.8	12389.7	12304.2	11402.4	10121.7	8686.7
12.5°	11692.8	11700.4	11833.4	12091.7	12562.4	13045.3	13051.4	13022.4	12247.6	10757.5	8922.1
15°	11394.8	11423.8	11472.8	11639.3	12085.6	12858.9	13412.1	13453.4	13022.4	11433.0	9172.7
17.5°	11590.4	11631.7	11590.4	11610.3	11868.6	12564.0	13474.7	13580.2	13699.4	12100.9	9409.6
20°	12120.7	12158.9	12085.6	12004.6	12055.0	12478.4	13430.5	13572.6	14229.8	12693.8	9608.3
22.5°	12836.0	12851.3	12739.7	12606.7	12570.0	12768.7	13467.1	13613.8	14654.6	13230.2	9733.6
25°	13623.0	13636.7	13497.7	13344.9	13257.8	13338.7	13768.2	13878.2	15029.0	13742.2	9805.4
27.5°	14480.3	14492.6	14318.4	14130.4	14029.6	14032.6	14264.9	14382.5	15427.9	14326.0	9863.5
30°	15386.7	15380.5	15220.1	14958.7	14830.3	14827.3	14980.1	15099.4	16005.6	15074.9	9943.0
32.5°	16404.5	16392.3	16164.5	15840.5	15695.4	15716.8	15852.8	15921.5	16722.3	15872.6	10085.0
35°	17744.8	17709.7	17365.7	16963.9	16696.4	16688.8	16803.3	16858.4	17636.2	16838.5	10321.9
37.5°	19484.0	19451.8	18985.7	18401.9	18026.0	17885.3	18021.3	18091.7	18939.9	18077.9	10702.5
40°	21198.7	21166.5	20890.0	20355.1	19775.8	19438.0	19545.1	19620.0	20567.5	19581.8	11182.4
42.5°	22381.5	22409.0	22505.4	22549.7	22007.2	21298.0	21346.9	21424.8	22277.6	21189.4	11731.0
45°	22693.3	22753.0	23297.0	24365.3	24568.5	24015.3	23503.3	23546.1	24015.3	22797.2	12279.7
47.5°	21756.5	21866.5	22916.4	24903.2	26624.0	27015.3	26046.4	25989.8	25682.6	24097.8	12669.3
50°	19627.6	19728.5	21088.7	24027.5	27247.6	29879.2	29093.7	28927.2	27145.2	24875.7	12806.9
52.5°	16546.6	16668.8	17773.8	21270.5	26072.3	31156.9	31979.1	31840.0	28218.0	24936.8	12829.8
55°	11685.1	11833.4	13002.5	16302.1	22347.9	30140.6	33001.5	32960.2	29109.0	24774.8	12878.7
57.5°	6566.9	6674.0	7934.8	10450.3	16367.8	26252.7	31933.3	32206.8	29647.0	24493.6	12952.1
60°	2915.9	2945.0	3597.5	5202.2	9582.3	20063.1	28875.2	29336.7	29185.4	24117.7	13075.9
62.5°	1616.9	1592.5	1592.5	2162.5	4164.6	12420.2	23546.1	24308.7	27215.4	23673.0	13082.0
65°	1266.9	1244.0	1178.3	1187.4	1586.3	5512.4	16305.2	17660.7	23474.3	22369.3	12641.8
67.5°	1074.4	1054.5	988.8	962.8	985.8	1818.7	8958.7	10366.3	17812.0	18981.1	10950.1
70°	907.8	894.0	860.4	828.3	770.2	898.7	3427.9	4384.6	10976.1	12626.6	7474.7
72.5°	730.5	724.4	736.7	709.1	638.9	599.1	1172.2	1419.8	4930.2	5634.7	3079.5
75°	629.6	626.6	632.7	605.2	525.8	417.2	596.0	651.1	1390.7	1378.5	623.6
77.5°	409.6	414.2	524.2	512.0	452.4	278.2	308.7	333.1	421.8	316.4	189.5
80°	261.3	258.3	266.0	424.9	406.5	212.4	154.4	162.0	203.3	155.8	91.7
82.5°	158.9	155.8	174.2	198.7	204.8	148.2	94.7	96.3	126.9	100.9	48.9
85°	13.8	18.4	105.5	97.8	70.3	45.8	45.8	48.9	67.3	59.6	27.5
87.5°	0.0	0.0	18.4	27.5	15.3	16.8	16.8	18.4	26.0	26.0	13.8
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°	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6	7925.6
2.5°	7931.8	7772.8	7451.8	7143.1	6881.8	6629.6	6342.3	6058.0	5925.1	5871.6	5816.6
5°	7945.4	7618.5	6956.7	6290.4	5599.6	4977.5	4447.3	3903.2	3631.2	3511.9	3457.0
7.5°	7963.8	7465.6	6395.8	5277.1	4164.6	3321.0	2584.3	2110.5	1905.8	1873.6	1794.2
10°	7966.9	7280.7	5744.8	4158.4	2792.1	2002.1	1540.5	1296.0	1205.8	1190.5	1164.5
12.5°	7973.0	7062.2	5021.9	3079.5	1861.4	1338.7	1114.1	1033.1	1008.7	1007.1	1007.1
15°	7991.4	6832.9	4271.5	2219.0	1337.2	1060.7	978.1	946.0	936.9	941.4	939.9
17.5°	7991.4	6562.4	3534.9	1653.6	1080.5	953.6	907.8	886.4	883.4	888.0	889.4
20°	7933.2	6233.8	2859.4	1286.8	958.2	884.9	843.6	823.8	816.1	819.1	820.7
22.5°	7794.2	5830.4	2309.2	1065.2	877.2	822.2	777.9	747.3	735.1	736.7	736.7
25°	7577.2	5352.0	1806.5	921.6	811.5	754.9	703.0	667.8	660.2	658.7	661.8
27.5°	7299.0	4823.2	1438.1	811.5	733.6	680.1	628.1	599.1	592.9	594.5	596.0
30°	7025.5	4274.6	1134.0	718.3	646.5	596.0	556.3	542.5	542.5	547.1	548.7
32.5°	6774.9	3747.3	897.1	637.3	568.5	522.7	499.8	498.2	505.8	508.9	510.5
35°	6559.3	3259.8	742.7	574.7	507.4	467.6	460.0	466.1	475.3	481.4	482.9
37.5°	6406.5	2824.3	649.5	522.7	460.0	428.0	426.4	438.6	450.9	464.6	467.6
40°	6342.3	2455.9	585.3	476.9	421.8	397.3	392.7	409.6	432.5	452.4	455.4
42.5°	6288.9	2154.9	530.3	432.5	391.2	356.1	354.5	376.0	403.5	423.3	428.0
45°	6243.0	1913.4	479.8	385.1	351.5	305.6	310.2	337.8	359.1	380.5	385.1
47.5°	6148.2	1714.7	424.9	334.7	290.4	261.3	270.5	294.9	311.8	343.8	348.5
50°	5978.6	1552.7	368.3	273.6	236.9	226.2	240.0	256.7	278.2	305.6	308.7
52.5°	5864.0	1430.5	319.4	229.3	195.6	198.7	212.4	218.5	230.7	241.5	238.4
55°	5798.2	1363.2	279.7	198.7	166.6	175.8	178.8	171.1	165.1	154.4	149.8
57.5°	5790.6	1302.1	249.1	172.7	146.7	151.3	140.6	114.6	93.2	81.0	78.0
60°	5778.4	1227.2	224.7	145.2	129.9	123.8	100.9	62.7	44.3	41.3	41.3
62.5°	5645.5	1111.1	206.3	122.2	110.0	93.2	58.0	29.1	24.4	26.0	26.0
65°	5222.1	949.1	188.0	99.3	87.1	67.3	29.1	16.8	9.1	10.7	10.7
67.5°	4439.7	756.5	168.1	76.4	65.7	42.8	16.8	7.6	0.0	0.0	0.0
70°	2972.5	469.2	142.2	53.5	42.8	26.0	12.2	1.5	0.0	0.0	0.0
72.5°	1140.1	253.7	114.6	32.1	27.5	18.4	7.6	0.0	0.0	0.0	0.0
75°	256.7	166.6	79.5	22.9	19.8	12.2	3.1	0.0	0.0	0.0	0.0
77.5°	97.8	120.7	45.8	15.3	13.8	7.6	0.0	0.0	0.0	0.0	0.0
80°	47.4	71.8	21.4	9.1	7.6	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	24.4	27.5	9.1	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	13.8	4.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	4.6	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)