

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: P190935

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA 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: 35257 lumens  
Efficiency: N/A  
Efficacy: 90.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 391  
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: 25 FT

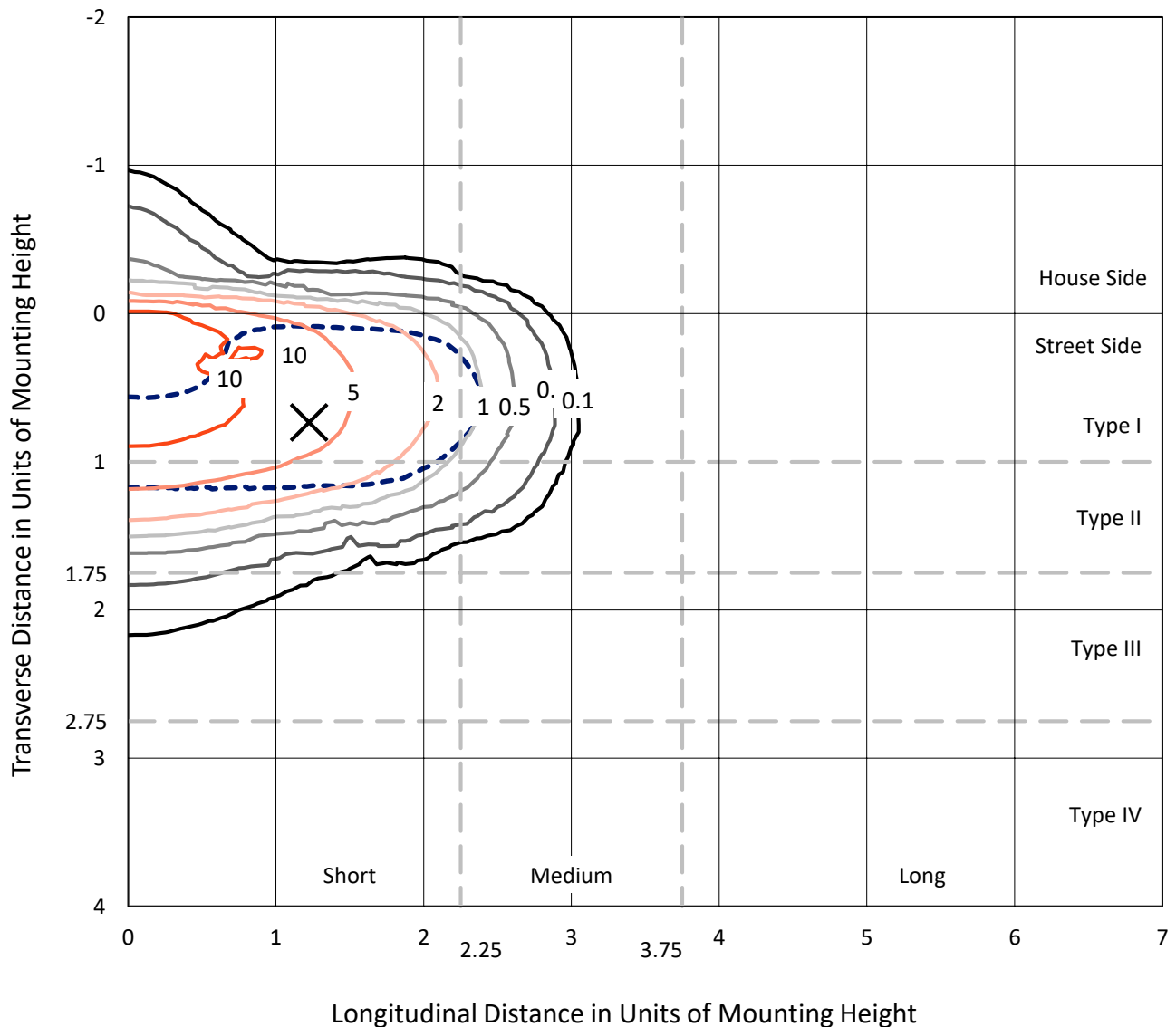


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

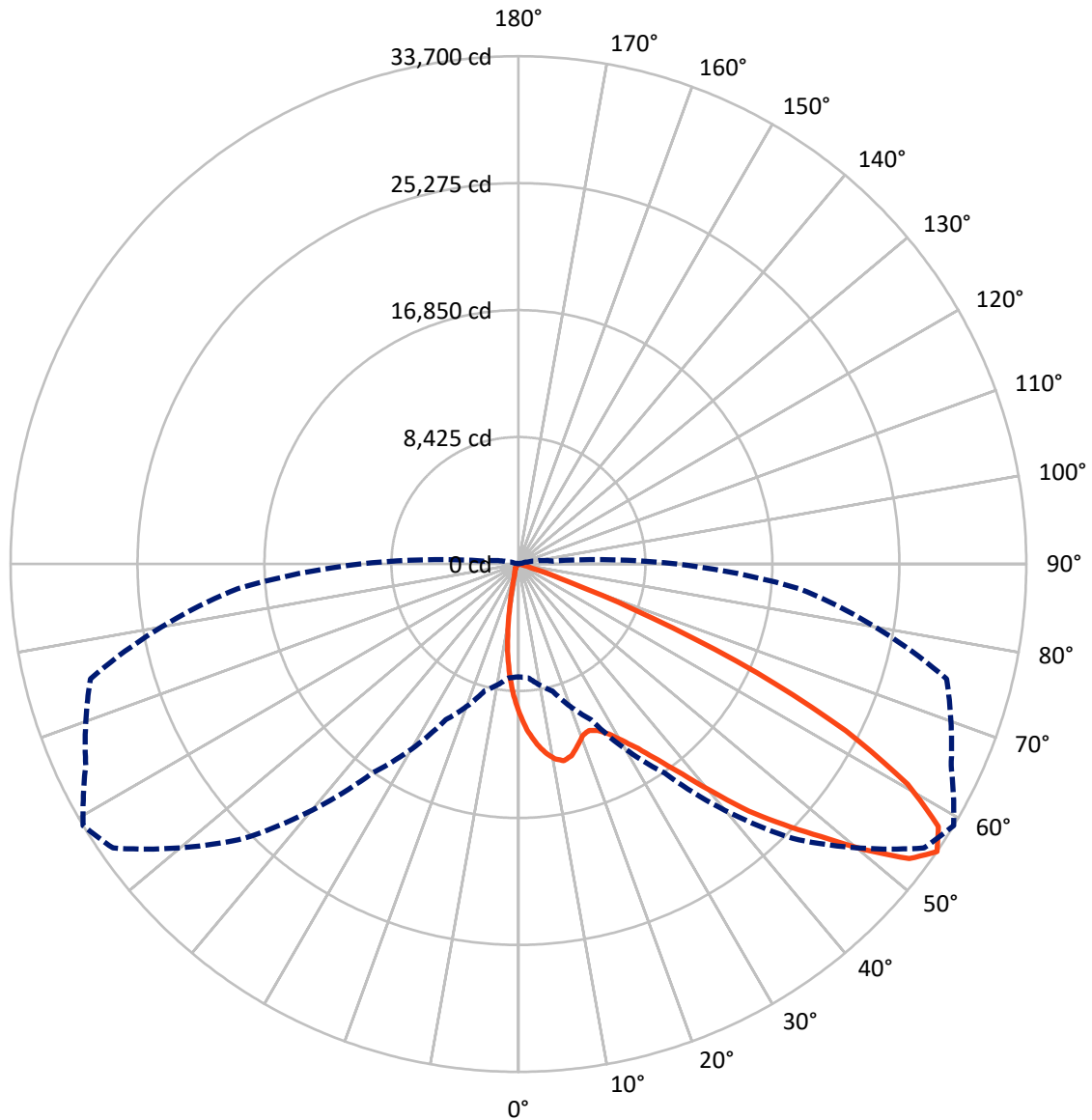


Based on 30 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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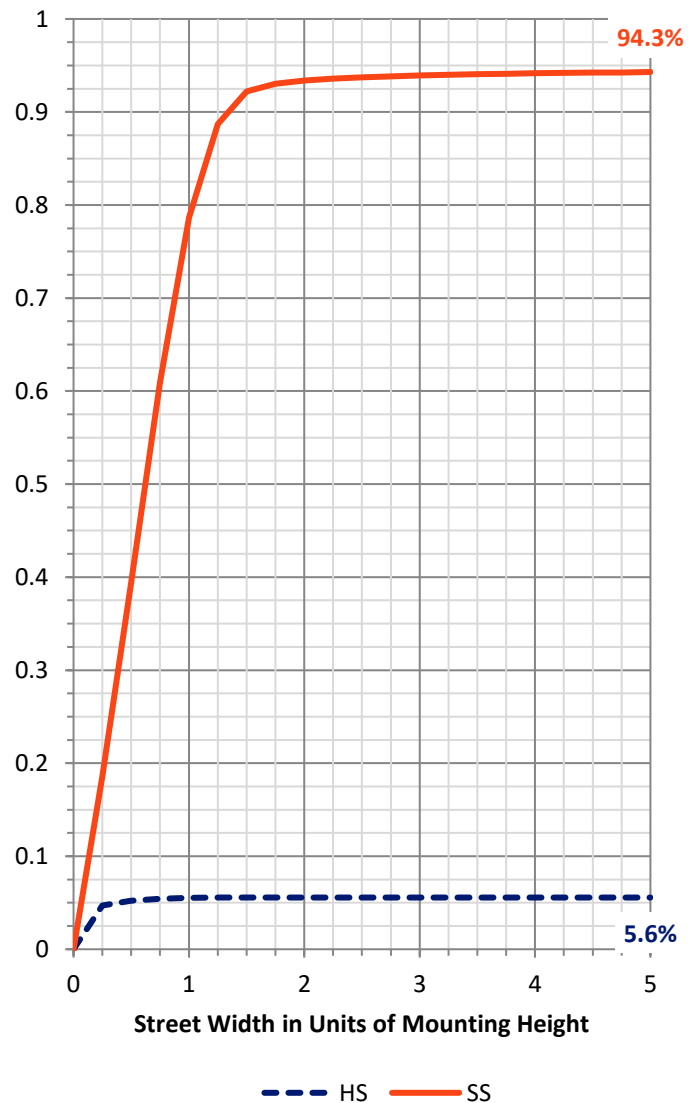
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.3	0.0	1969.3
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	33287.7	0.0	33287.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	35257.0	0.0	35257.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.3	2.4
10°-20°	1990.4	5.6
20°-30°	3386.8	9.6
30°-40°	5824.6	16.5
40°-50°	8992.6	25.5
50°-60°	9040.4	25.6
60°-70°	4636.0	13.1
70°-80°	502.4	1.4
80°-90°	52.5	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°	35257.0	100.0
0°-180°	35257.0	100.0



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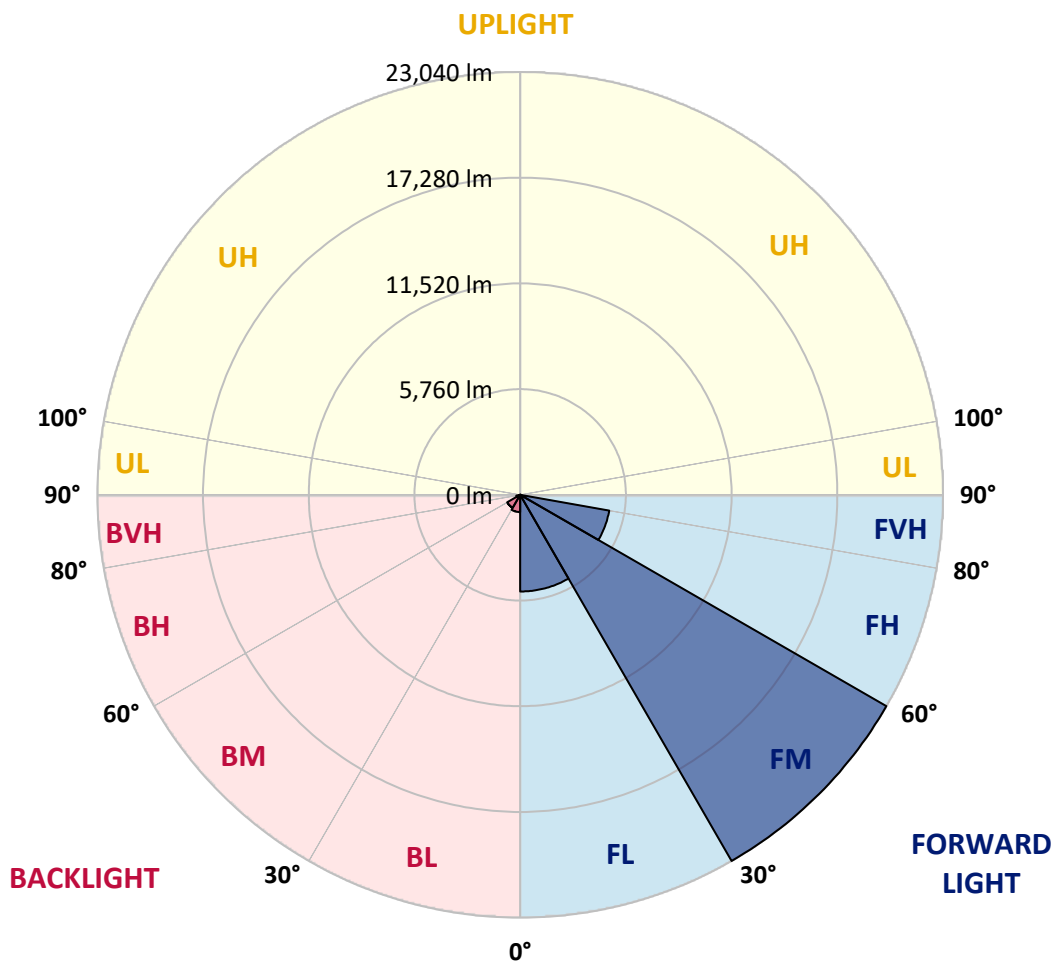
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5268.6	14.9			
FM (30°-60°)	23040.3	65.3			
FH (60°-80°)	4927.4	14.0			G2/5000
FVH (80°-90°)	51.4	0.1			G1/100
BL (0°-30°)	939.9	2.7	B2/1000		
BM (30°-60°)	817.3	2.3	B1/1000		
BH (60°-80°)	211.0	0.6	B1/500		G1/500
BVH (80°-90°)	1.1	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°	55°	59°	65°	75°	85°
0°	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8
2.5°	11743.2	11618.4	11580.9	11556.0	11441.5	11298.0	11102.4	11010.8	10823.5	10521.9	10151.6
5°	12818.9	12796.0	12712.8	12667.0	12544.2	12340.4	12028.3	11878.5	11580.9	11073.2	10409.5
7.5°	12348.7	12492.3	12606.6	12798.1	13039.5	13031.2	12769.0	12612.9	12280.0	11610.1	10696.7
10°	10532.3	10648.8	10836.0	11270.9	12157.3	12939.6	13247.5	13135.2	12868.8	12103.1	10973.4
12.5°	10176.5	10164.0	10197.3	10324.2	10788.2	11903.5	13166.4	13393.2	13339.1	12554.7	11235.6
15°	10365.9	10351.2	10347.1	10390.8	10503.1	10973.4	12556.7	13208.0	13626.2	12972.9	11458.2
17.5°	10896.4	10834.0	10800.7	10765.3	10732.0	10848.5	11824.4	12689.9	13669.9	13339.1	11643.3
20°	11805.7	11701.6	11578.9	11379.1	11191.8	11133.6	11516.4	12157.3	13513.9	13617.9	11764.0
22.5°	12947.9	12814.7	12602.5	12238.4	11857.6	11637.1	11668.3	11988.8	13280.9	13921.6	11820.2
25°	14231.7	14061.1	13778.1	13272.5	12712.8	12321.6	12117.8	12230.1	13174.7	14277.4	11884.7
27.5°	15607.0	15417.6	15047.3	14358.6	13724.0	13195.6	12779.4	12764.8	13355.7	14743.5	11988.8
30°	16969.8	16940.7	16457.9	15729.7	14889.2	14246.2	13647.0	13570.1	13861.3	15388.6	12194.7
32.5°	18788.3	18569.8	17979.0	17229.9	16260.3	15488.4	14778.9	14600.0	14637.4	16139.6	12513.0
35°	21081.2	20841.9	20009.6	18975.5	17891.5	16980.3	16195.9	15952.4	15860.9	17369.3	13049.9
37.5°	22562.6	22558.4	22036.2	20983.4	19820.3	18815.3	17962.3	17677.2	17492.0	18854.9	13882.2
40°	22602.2	22700.0	22768.6	22758.2	21930.1	21004.2	20246.9	19895.3	19464.5	20839.9	14957.8
42.5°	21389.1	21640.9	22246.3	23274.2	23765.2	23396.9	22758.2	22412.9	21772.0	22964.2	16268.6
45°	19749.6	19924.3	20983.4	22876.8	24759.8	25768.9	25282.0	24664.1	23819.3	25180.0	17444.2
47.5°	19015.1	19046.3	19730.9	21809.4	24834.7	27712.2	28007.7	27002.7	25679.4	26965.3	18363.9
50°	16820.0	16876.2	17820.8	19959.7	23956.7	28629.8	30745.8	29792.9	27708.1	28340.6	18698.8
52.5°	12677.4	12756.5	13955.0	16919.9	21543.1	28238.7	32705.8	32474.9	29930.2	29012.6	18717.5
55°	7479.9	7584.0	8728.3	11389.5	16944.9	25750.2	32851.5	33700.4	31684.3	29410.0	18688.5
57.5°	3493.4	3566.2	4221.6	5867.4	10538.5	20350.9	30658.4	32859.7	32651.7	29620.2	18894.4
60°	1855.9	1876.7	2034.9	2540.5	4762.7	12904.2	26378.5	29672.2	31769.5	29911.5	19146.2
62.5°	1419.0	1425.3	1416.9	1477.2	2001.6	5728.0	19938.9	24393.6	28217.9	29693.0	18867.4
65°	1229.7	1240.0	1181.8	1167.3	1283.8	2043.2	11845.2	17388.0	22173.6	26744.7	16967.8
67.5°	1102.7	1106.9	1036.1	975.8	996.7	1104.8	4673.1	9519.0	14677.0	19603.9	12298.7
70°	1015.4	1011.2	934.3	838.5	811.4	755.2	1485.6	3489.3	7013.9	9941.3	5719.7
72.5°	898.9	900.9	863.5	738.7	674.1	528.5	688.7	1017.4	2093.2	2709.0	1340.0
75°	796.9	786.4	740.7	661.6	555.6	347.5	341.3	453.6	645.0	640.9	289.2
77.5°	576.3	565.9	580.5	543.1	426.6	224.7	170.6	218.5	262.2	253.8	81.1
80°	422.4	416.1	374.5	451.5	376.5	154.0	106.1	116.5	135.2	114.5	25.0
82.5°	289.2	287.1	264.2	249.7	214.3	93.6	66.6	72.8	87.4	64.5	12.5
85°	45.7	52.0	191.4	151.9	126.9	41.6	45.7	49.9	58.3	35.4	4.2
87.5°	0.0	0.0	89.5	79.1	25.0	16.7	27.0	29.2	29.2	18.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8	9924.8
2.5°	9962.2	9754.1	9369.2	8971.8	8603.5	8164.5	7862.8	7636.0	7373.8	7303.1	7457.1
5°	10030.9	9637.6	8809.4	7908.5	7061.7	6123.4	5405.6	4837.5	4323.6	4148.8	4306.9
7.5°	10139.1	9554.4	8204.1	6720.5	5247.4	3782.7	2779.8	2120.2	1699.9	1575.0	1641.6
10°	10247.2	9433.7	7502.8	5314.0	3299.9	1841.4	1198.5	957.1	867.7	848.9	859.3
12.5°	10336.7	9271.4	6647.6	3778.5	1764.4	986.2	784.4	744.9	732.4	732.4	736.5
15°	10390.8	9025.9	5634.4	2403.1	1015.4	744.9	684.6	672.1	672.1	674.1	678.3
17.5°	10384.6	8713.8	4525.4	1454.3	759.4	659.6	624.2	613.8	611.7	615.9	618.0
20°	10307.6	8306.0	3412.3	959.2	661.6	601.3	565.9	547.2	545.1	549.3	553.4
22.5°	10161.9	7802.5	2440.7	738.7	597.2	545.1	501.5	484.8	484.8	489.0	493.2
25°	9985.0	7186.5	1668.6	626.3	538.9	484.8	443.1	428.6	432.8	443.1	445.3
27.5°	9764.5	6493.7	1133.9	536.8	468.1	424.4	393.2	382.9	393.2	407.9	411.9
30°	9575.1	5771.7	809.4	464.0	397.4	366.2	347.5	347.5	362.0	389.1	395.4
32.5°	9429.6	5072.6	624.2	409.9	345.3	318.3	307.9	318.3	341.3	368.3	374.5
35°	9410.8	4496.3	528.5	366.2	307.9	280.9	276.7	295.4	318.3	339.1	343.3
37.5°	9554.4	3963.6	476.5	330.8	274.7	249.7	245.5	268.4	291.3	316.3	322.5
40°	9827.0	3545.4	439.1	297.6	247.6	220.5	212.3	228.8	260.0	293.4	301.7
42.5°	10180.6	3200.1	397.4	264.2	220.5	183.1	172.7	191.4	224.7	260.0	270.5
45°	10517.7	2902.5	351.6	226.8	185.2	141.5	137.3	162.2	178.9	214.3	222.6
47.5°	10702.9	2640.3	312.1	185.2	143.5	114.5	114.5	120.7	137.3	178.9	187.3
50°	10640.4	2430.2	270.5	137.3	99.8	87.4	87.4	85.3	110.3	143.5	149.8
52.5°	10515.6	2309.5	233.0	106.1	68.6	62.4	56.2	62.4	77.0	91.6	93.6
55°	10496.9	2288.8	195.6	85.3	47.9	41.6	31.2	31.2	31.2	29.2	25.0
57.5°	10642.6	2322.0	164.4	68.6	35.4	27.0	16.7	0.0	0.0	0.0	0.0
60°	10792.3	2357.4	141.5	47.9	25.0	14.5	2.0	0.0	0.0	0.0	0.0
62.5°	10542.6	2278.3	118.6	29.2	18.7	6.2	0.0	0.0	0.0	0.0	0.0
65°	9261.0	1939.2	93.6	20.8	12.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6587.4	1298.3	62.4	12.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3006.6	543.1	39.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	642.9	168.6	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	131.0	122.8	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	41.6	193.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	25.0	139.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)