

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: P199980

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL4-7030-600-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6314.4 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

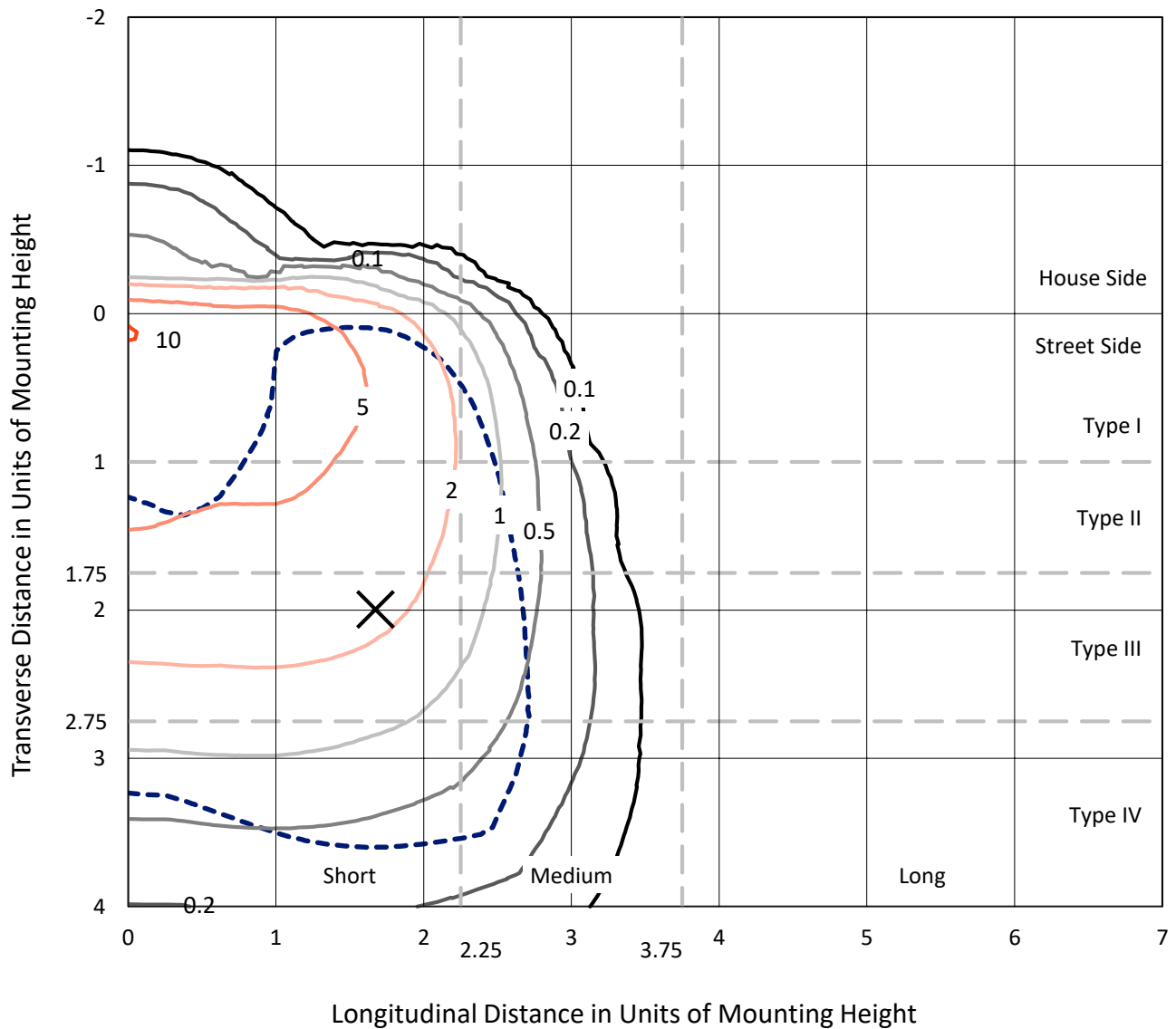
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

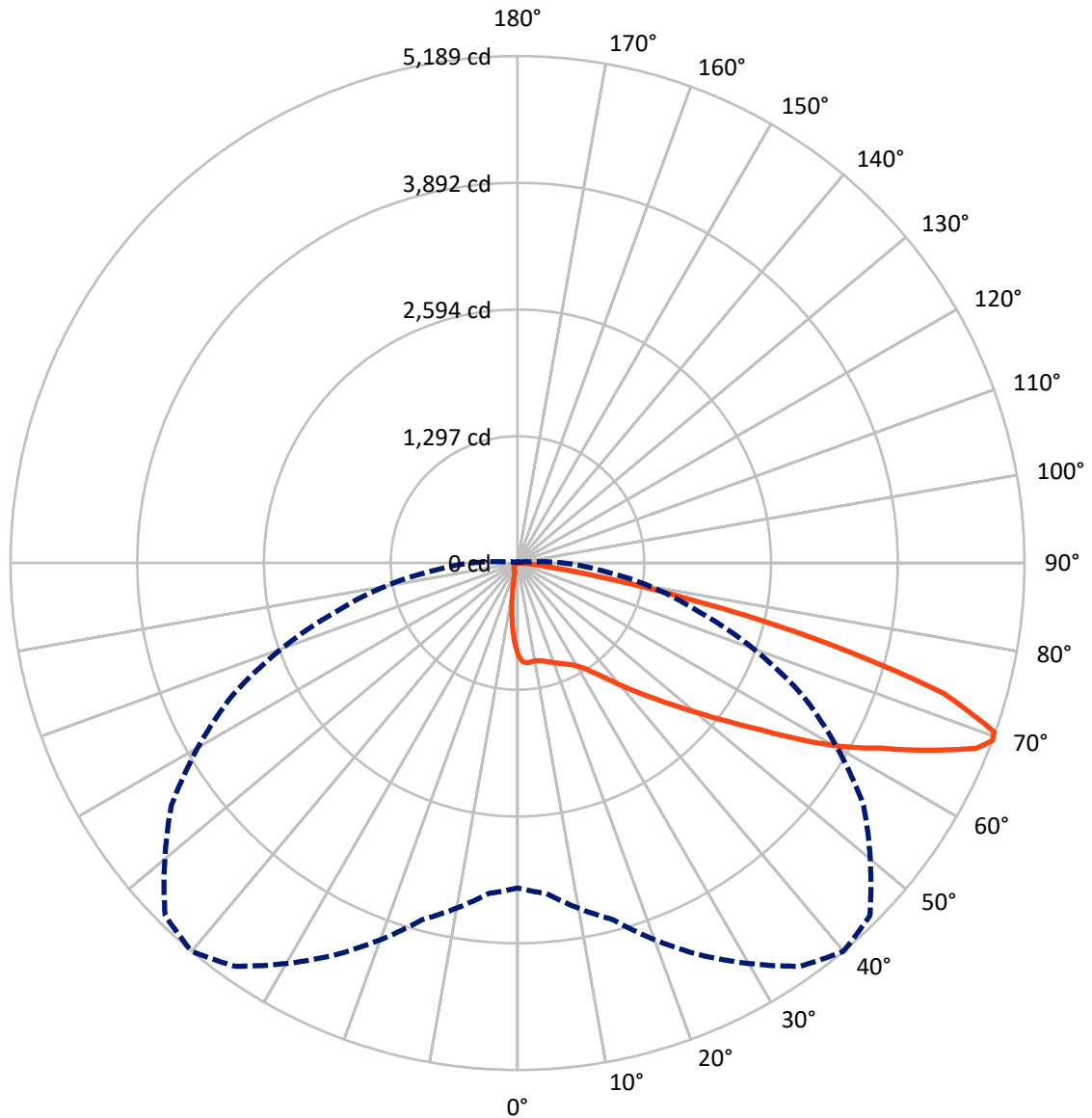


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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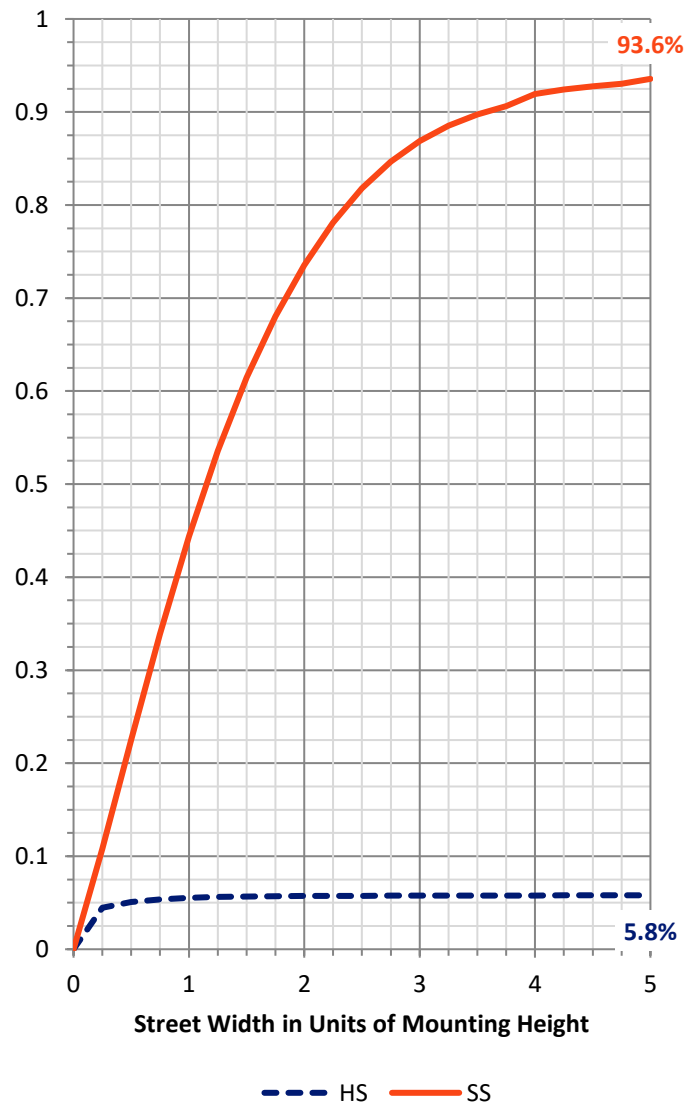
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	369.4	0.0	369.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	5945.0	0.0	5945.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	6314.4	0.0	6314.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	1.2
10°-20°	188.1	3.0
20°-30°	316.8	5.0
30°-40°	518.7	8.2
40°-50°	898.1	14.2
50°-60°	1414.5	22.4
60°-70°	1847.3	29.3
70°-80°	951.5	15.1
80°-90°	102.9	1.6
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°	6314.4	100.0
0°-180°	6314.4	100.0

Coefficient of Utilization



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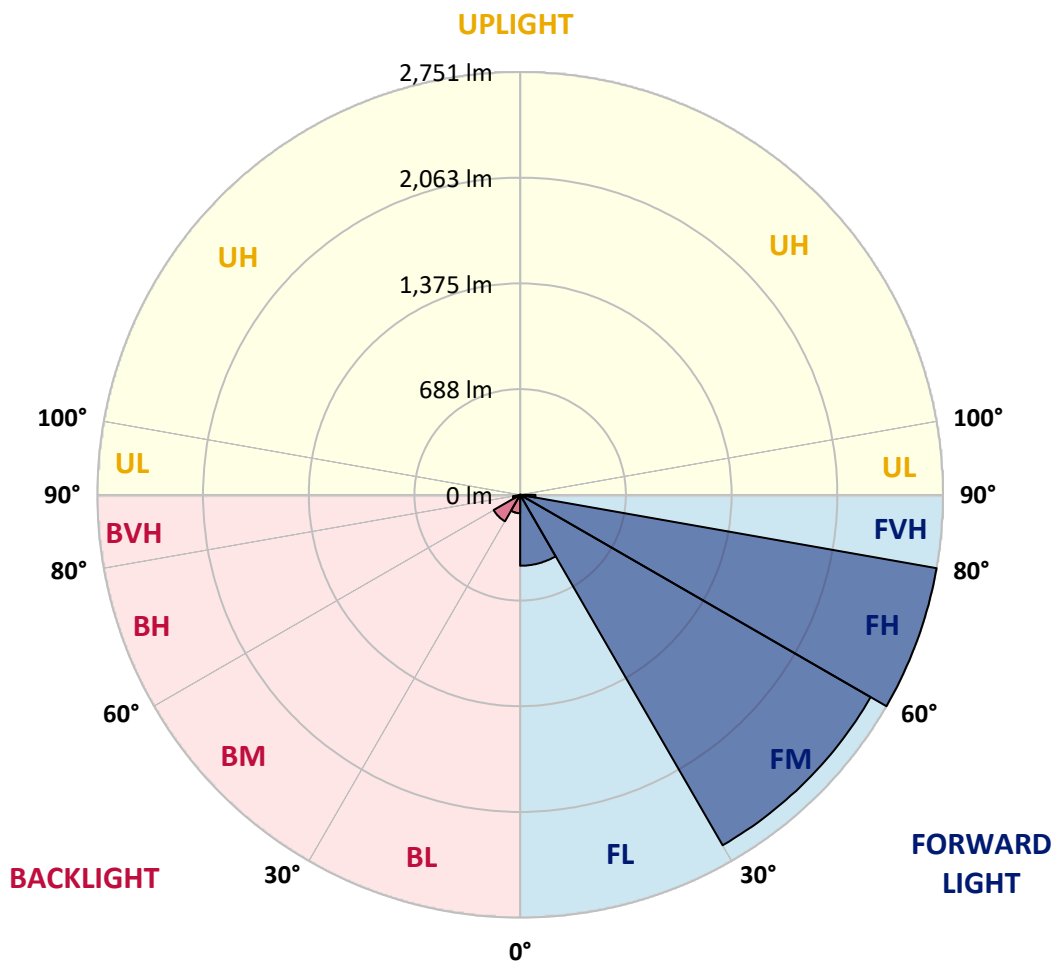
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.8	7.3			
FM	(30°-60°)	2632.7	41.7			
FH	(60°-80°)	2750.9	43.6			G2/5000
FVH	(80°-90°)	99.7	1.6			G1/100
BL	(0°-30°)	119.7	1.9	B1/500		
BM	(30°-60°)	198.5	3.1	B0/220		
BH	(60°-80°)	47.9	0.8	B0/110		G0/110
BVH	(80°-90°)	3.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5
2.5°	1035.8	1030.3	1026.8	1022.3	1016.7	1011.8	1010.0	996.0	982.9	964.8	944.2
5°	1055.1	1053.1	1047.1	1041.1	1034.3	1026.8	1022.7	1006.2	987.4	961.1	925.0
7.5°	1056.9	1054.6	1047.1	1038.8	1029.5	1020.5	1013.3	996.7	979.4	952.8	908.9
10°	1053.9	1051.3	1045.6	1036.6	1025.0	1016.3	1009.2	993.4	978.7	954.7	905.9
12.5°	1050.6	1047.9	1045.3	1040.8	1030.6	1024.6	1018.5	1003.5	990.4	970.1	916.7
15°	1053.9	1052.4	1055.4	1053.6	1047.9	1042.6	1036.6	1023.1	1011.0	994.2	936.7
17.5°	1068.2	1068.2	1077.6	1078.7	1073.4	1065.9	1057.3	1043.8	1033.6	1019.3	960.3
20°	1101.7	1100.5	1112.5	1114.8	1102.0	1090.4	1077.6	1061.1	1053.1	1044.1	983.6
22.5°	1159.1	1153.9	1161.1	1158.8	1133.6	1115.5	1099.7	1079.4	1075.4	1071.2	1009.5
25°	1234.0	1231.0	1235.8	1213.7	1169.3	1144.9	1126.1	1103.2	1103.2	1107.3	1038.8
27.5°	1342.6	1331.3	1314.8	1275.7	1209.2	1177.9	1157.6	1133.3	1139.6	1155.1	1077.6
30°	1453.9	1441.4	1403.5	1343.3	1257.6	1225.0	1201.2	1175.7	1190.7	1219.0	1129.5
32.5°	1563.6	1549.7	1496.0	1420.0	1327.1	1294.5	1271.6	1243.3	1268.6	1315.8	1205.4
35°	1670.0	1657.5	1595.5	1506.1	1419.6	1392.5	1371.5	1347.1	1379.4	1445.6	1312.5
37.5°	1789.5	1776.0	1700.4	1603.4	1532.1	1512.5	1497.0	1472.7	1529.1	1625.9	1461.7
40°	1936.4	1913.6	1811.6	1715.1	1662.0	1652.7	1642.2	1638.7	1726.4	1860.5	1660.5
42.5°	2104.9	2067.3	1928.2	1832.7	1804.9	1811.6	1809.1	1824.1	1973.3	2152.2	1902.6
45°	2273.2	2224.7	2057.8	1958.3	1962.0	1985.6	2000.4	2060.5	2282.6	2486.7	2163.1
47.5°	2416.0	2368.3	2182.3	2093.9	2139.0	2185.6	2225.5	2339.3	2600.5	2816.0	2365.6
50°	2538.3	2493.1	2314.2	2243.2	2344.6	2419.8	2484.4	2653.2	2942.6	3066.7	2507.7
52.5°	2638.1	2608.1	2451.0	2414.2	2579.5	2689.7	2784.4	2986.6	3245.5	3270.3	2618.3
55°	2735.6	2714.1	2598.0	2617.5	2855.4	3005.4	3125.3	3340.3	3506.4	3440.3	2724.3
57.5°	2847.6	2828.0	2765.6	2875.4	3218.1	3406.9	3537.6	3653.8	3736.1	3613.9	2824.3
60°	2961.8	2950.5	2952.0	3161.8	3634.6	3815.8	3887.9	3918.0	3961.6	3777.4	2829.9
62.5°	3070.8	3092.3	3165.2	3480.5	4033.4	4172.5	4208.9	4238.6	4187.5	3803.4	2614.5
65°	3255.3	3290.3	3464.3	3907.1	4472.0	4620.9	4658.5	4556.5	4223.2	3468.1	2126.7
67.5°	3345.5	3409.4	3719.9	4304.8	4897.5	5062.9	5049.0	4577.3	3789.9	2644.6	1364.7
69°	3326.7	3394.8	3778.9	4426.6	5038.8	5188.7	5100.5	4324.3	3228.7	1915.8	837.8
70°	3252.3	3321.1	3748.5	4422.1	5056.8	5175.6	5005.0	4012.0	2729.9	1400.8	523.9
72.5°	2716.0	2775.4	3327.9	3997.0	4658.5	4561.8	4187.1	2779.5	1330.1	381.5	118.0
75°	1671.8	1704.9	2387.9	3011.1	3518.5	3270.3	2789.7	1382.8	396.5	107.8	65.4
77.5°	883.3	898.4	1307.3	1774.8	2230.4	1845.5	1429.8	539.4	182.7	67.7	47.4
80°	522.1	533.4	703.9	811.5	965.2	806.2	571.7	331.1	130.8	42.4	42.1
82.5°	298.8	306.0	510.4	451.0	380.3	324.7	284.5	313.8	78.5	28.6	43.6
85°	109.8	111.3	287.2	343.2	226.3	134.6	141.3	260.1	21.1	18.0	34.2
87.5°	51.1	49.9	147.7	210.1	132.3	85.3	110.1	57.1	8.3	11.6	9.3
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°	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5	943.5
2.5°	932.2	918.2	893.1	867.1	840.8	820.5	800.6	784.8	779.6	769.8	770.5
5°	903.6	878.1	825.4	772.0	716.4	670.5	627.4	592.4	575.5	558.2	558.2
7.5°	878.8	841.5	759.3	672.4	582.6	507.1	439.0	387.8	359.7	337.2	336.7
10°	869.4	819.0	703.9	579.6	454.4	351.4	270.7	218.8	192.0	174.8	174.0
12.5°	873.5	811.1	661.5	493.9	336.7	225.9	156.7	123.3	112.0	106.8	106.8
15°	885.6	808.9	619.1	410.1	237.9	141.3	104.1	95.1	94.3	94.3	94.3
17.5°	900.2	809.6	575.5	328.5	162.0	101.1	89.8	88.7	89.5	89.5	89.5
20°	915.2	810.0	528.4	252.9	114.3	88.0	84.5	84.2	85.0	85.0	85.3
22.5°	933.7	811.9	481.5	189.0	94.3	83.0	80.4	80.4	80.8	80.8	80.4
25°	954.7	815.7	432.6	140.2	86.0	79.7	77.4	77.0	77.4	77.0	76.7
27.5°	981.0	820.9	378.1	109.8	82.3	76.3	74.4	74.4	74.0	73.7	73.3
30°	1014.0	826.9	316.9	93.2	78.5	73.3	71.4	71.0	70.7	69.9	69.9
32.5°	1064.4	840.0	256.4	84.5	74.4	69.2	67.7	67.7	66.9	66.2	65.7
35°	1141.8	866.0	202.2	79.3	69.9	64.7	62.7	62.7	62.0	61.7	61.2
37.5°	1249.0	905.4	157.1	74.4	65.4	59.7	57.9	57.5	56.7	56.0	55.6
40°	1391.5	954.3	123.6	69.9	60.9	54.9	53.4	52.6	51.1	49.9	49.9
42.5°	1570.4	1010.0	100.3	65.0	55.6	50.4	49.2	48.1	45.4	44.4	43.9
45°	1757.5	1059.9	85.0	59.4	50.4	45.9	45.1	43.2	39.8	38.7	38.7
47.5°	1892.5	1071.6	74.8	54.1	45.4	40.9	40.6	37.2	34.2	33.4	33.1
50°	1976.6	1048.6	66.5	48.9	40.9	36.4	35.3	31.1	29.3	28.6	28.1
52.5°	2033.4	1007.7	59.7	44.4	36.8	32.3	29.6	26.6	25.1	24.4	24.4
55°	2078.9	949.8	53.0	40.2	33.4	28.9	25.1	22.9	21.4	20.6	20.6
57.5°	2091.7	871.3	46.2	36.8	30.1	25.6	21.4	19.9	18.0	17.6	17.6
60°	1998.9	729.5	40.9	32.7	27.1	22.1	18.8	16.9	15.0	14.6	14.3
62.5°	1754.2	564.5	36.1	28.9	23.6	19.1	16.1	13.9	12.4	12.4	12.4
65°	1338.1	378.5	31.6	25.1	20.6	16.1	13.9	11.3	10.5	10.5	10.8
67.5°	800.9	206.0	27.1	21.4	17.6	13.5	11.6	9.8	9.3	9.8	9.8
69°	469.5	121.0	24.4	19.1	15.4	12.0	10.1	8.6	9.3	9.8	9.8
70°	289.8	81.5	22.6	17.3	13.9	10.8	9.3	8.3	9.0	9.3	9.3
72.5°	80.8	42.1	18.0	13.5	11.3	9.0	7.5	7.5	8.6	9.0	9.0
75°	52.6	31.1	13.9	10.1	8.6	7.1	6.3	7.1	8.3	8.6	8.6
77.5°	43.6	25.6	11.3	8.3	7.1	6.8	6.0	6.3	7.5	7.8	7.8
80°	39.8	18.0	9.0	7.5	6.3	6.0	5.6	5.3	6.8	7.1	7.1
82.5°	37.9	14.3	7.8	6.8	6.0	5.3	4.8	5.3	6.0	6.3	6.8
85°	23.6	9.3	7.1	6.3	5.3	4.8	4.8	4.8	5.6	6.0	6.0
87.5°	8.6	7.5	6.3	5.3	4.5	4.5	4.5	4.5	4.8	5.6	5.6
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)