

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: P594207

Luminaire Tested: **ISC-PA1D-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-PA1D-727-U-T4W
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7081 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

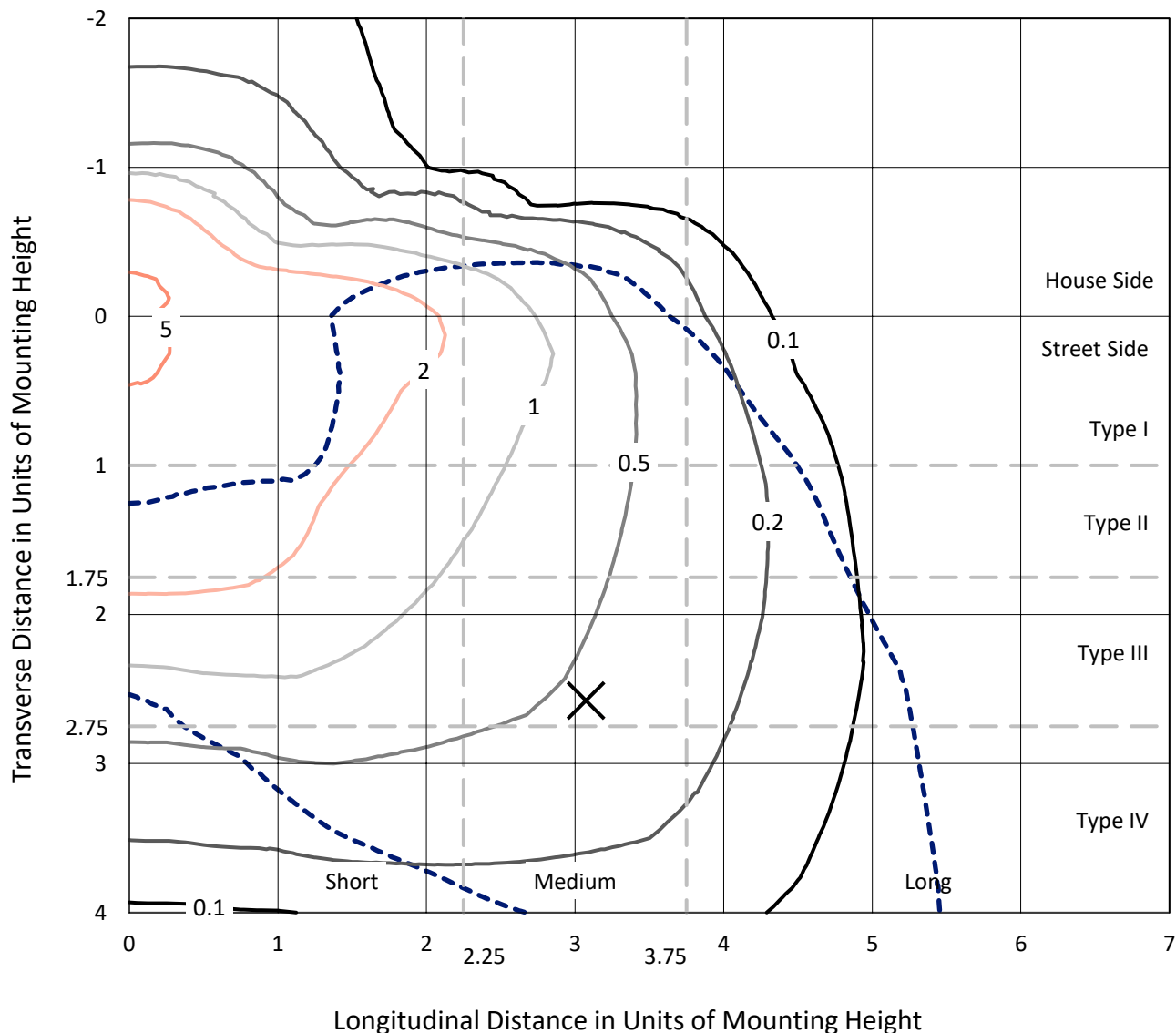
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

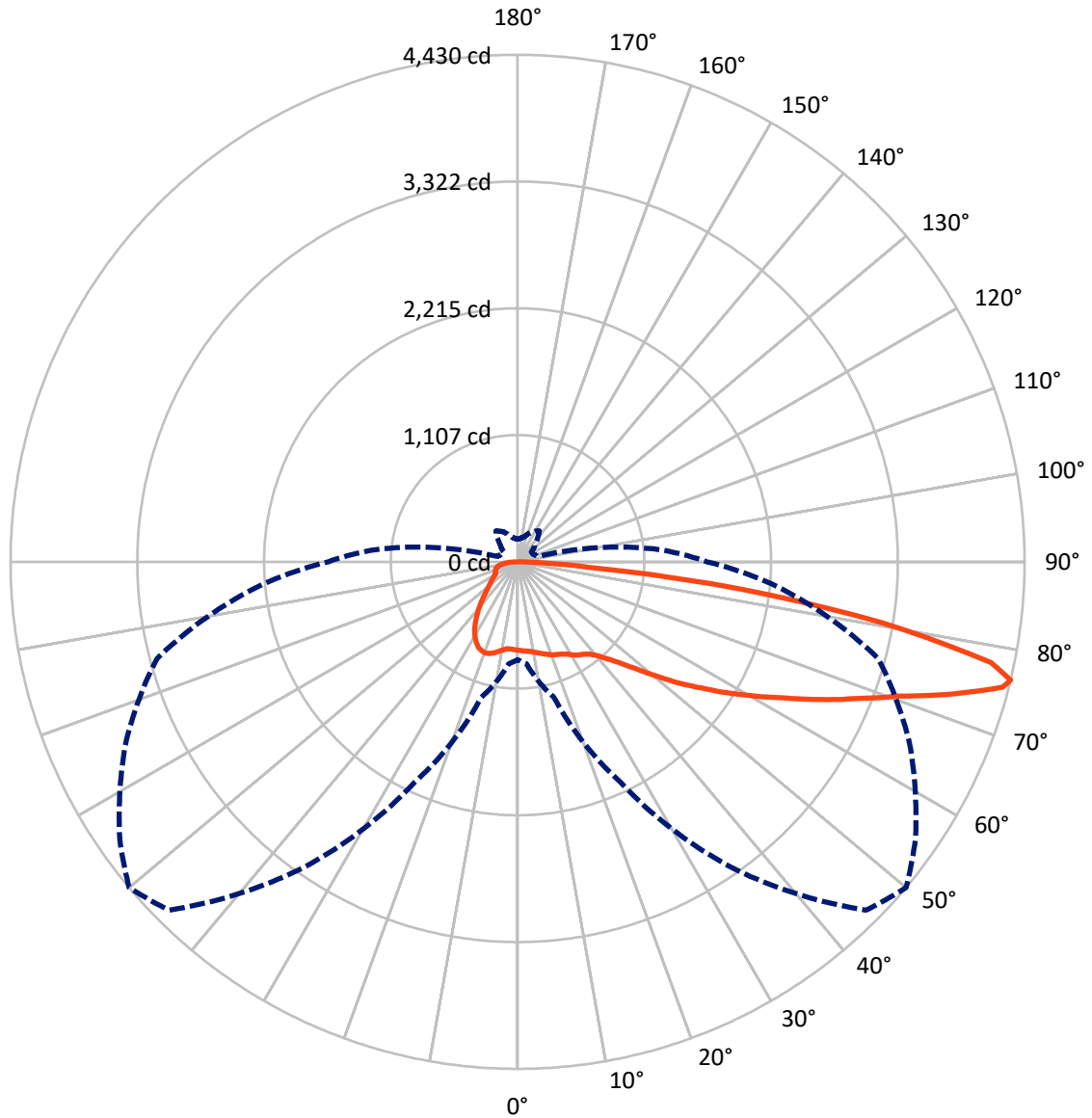
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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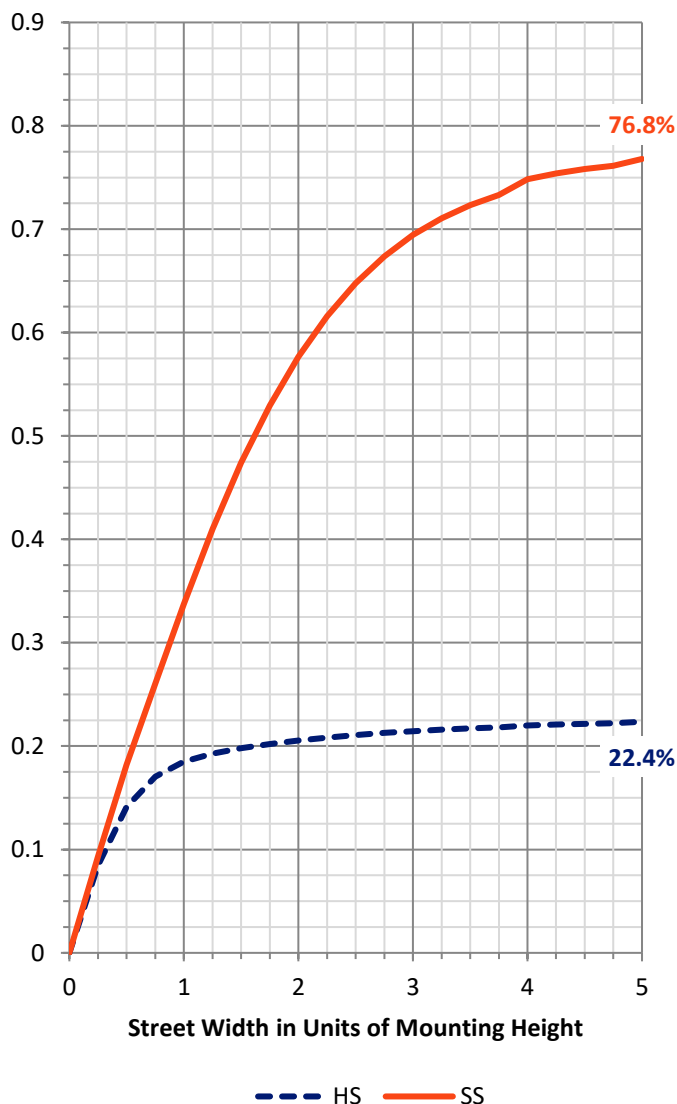
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.8	0.0	1619.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	5461.2	0.0	5461.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	7081.0	0.0	7081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	1.1
10°-20°	235.6	3.3
20°-30°	398.0	5.6
30°-40°	545.6	7.7
40°-50°	803.5	11.3
50°-60°	1264.0	17.9
60°-70°	1819.4	25.7
70°-80°	1654.3	23.4
80°-90°	285.6	4.0
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°	7081.0	100.0
0°-180°	7081.0	100.0

Coefficient of Utilization



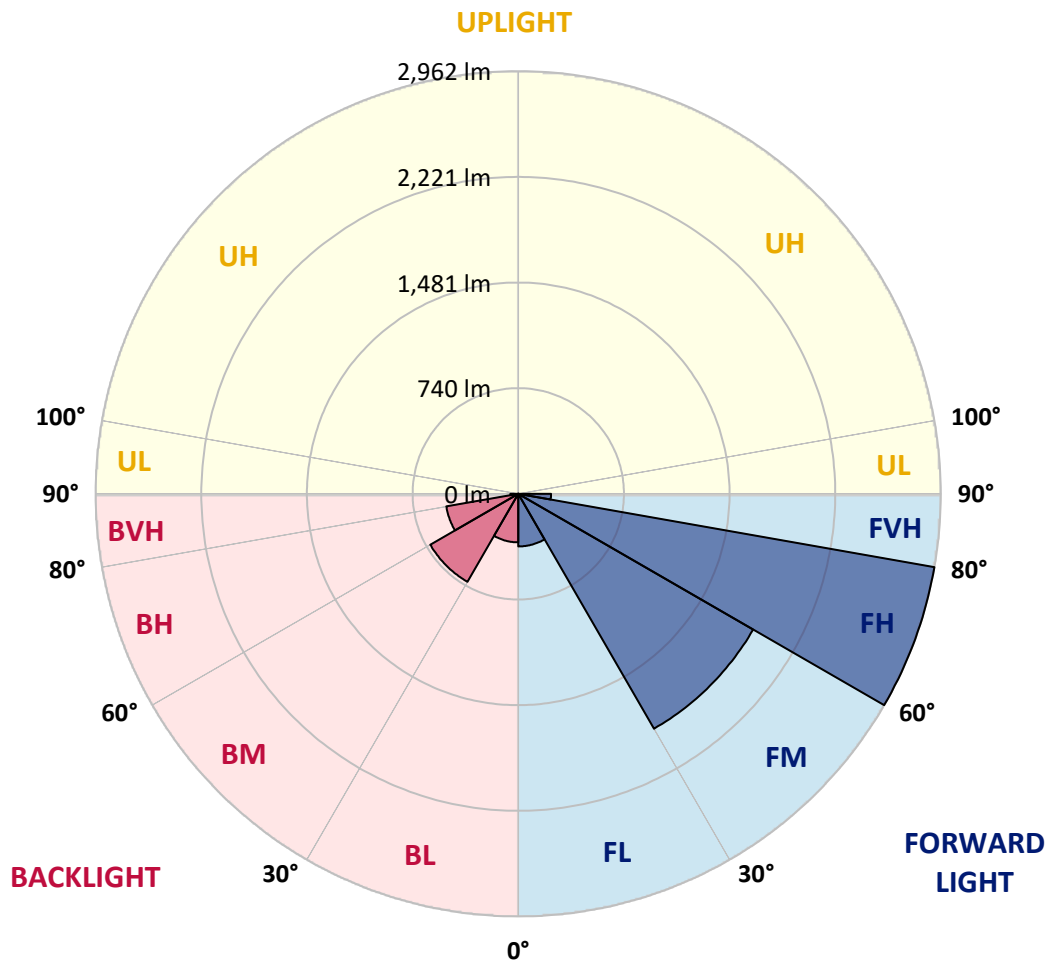
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.5	5.2			
FM (30°-60°)	1901.1	26.8			
FH (60°-80°)	2961.6	41.8			G2/5000
FVH (80°-90°)	229.9	3.2			G3/500
BL (0°-30°)	340.1	4.8	B1/500		
BM (30°-60°)	711.9	10.1	B1/1000		
BH (60°-80°)	512.1	7.2	B2/1000		G2/1000
BVH (80°-90°)	55.7	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	789.2	789.2	790.9	787.4	787.4	778.8	778.8	777.0	773.5	771.8	768.3
5°	818.6	818.6	813.4	804.8	799.6	789.2	784.0	780.5	773.5	764.9	756.2
7.5°	849.9	846.4	842.9	829.0	818.6	799.6	790.9	785.7	771.8	759.7	754.5
10°	882.8	877.6	868.9	851.6	836.0	813.4	803.0	796.1	780.5	770.1	757.9
12.5°	901.9	901.9	891.5	870.7	849.9	822.1	816.9	808.2	792.6	778.8	766.6
15°	921.0	922.7	912.3	888.0	863.7	842.9	834.3	829.0	811.7	790.9	775.3
17.5°	940.1	938.3	927.9	900.2	874.1	855.1	849.9	842.9	825.6	806.5	790.9
20°	953.9	950.5	947.0	912.3	886.3	874.1	867.2	862.0	844.7	823.8	803.0
22.5°	957.4	960.9	957.4	915.8	895.0	881.1	879.3	874.1	860.3	841.2	820.4
25°	959.1	960.9	966.1	926.2	907.1	896.7	893.2	889.8	879.3	863.7	836.0
27.5°	967.8	969.5	969.5	933.1	922.7	915.8	912.3	912.3	907.1	888.0	860.3
30°	969.5	971.3	974.7	950.5	947.0	941.8	943.5	941.8	933.1	912.3	881.1
32.5°	981.7	983.4	992.1	960.9	964.3	969.5	971.3	969.5	952.2	934.8	908.8
35°	1021.6	1019.8	1026.8	986.9	983.4	985.1	990.3	988.6	981.7	966.1	948.7
37.5°	1149.9	1149.9	1130.8	1047.6	1021.6	1018.1	1021.6	1030.2	1032.0	1018.1	1004.2
40°	1375.4	1363.2	1352.8	1172.5	1089.2	1068.4	1078.8	1084.0	1097.9	1097.9	1097.9
42.5°	1607.8	1609.5	1606.1	1366.7	1210.6	1158.6	1160.3	1172.5	1201.9	1207.2	1222.8
45°	1814.2	1826.3	1852.4	1592.2	1389.3	1273.1	1260.9	1273.1	1314.7	1349.4	1389.3
47.5°	1975.5	1961.6	2018.9	1828.1	1593.9	1429.2	1397.9	1401.4	1458.6	1514.1	1576.6
50°	2114.2	2117.7	2143.7	2069.2	1852.4	1606.1	1564.4	1557.5	1639.0	1698.0	1803.8
52.5°	2270.3	2259.9	2298.1	2280.8	2103.8	1822.9	1757.0	1736.1	1824.6	1907.9	2022.3
55°	2344.9	2355.3	2433.4	2476.7	2341.5	2017.1	1944.3	1951.2	2044.9	2133.3	2292.9
57.5°	2476.7	2487.1	2577.3	2667.5	2553.1	2223.5	2159.3	2159.3	2265.1	2364.0	2610.3
60°	2657.1	2658.9	2750.8	2906.9	2738.6	2423.0	2381.3	2379.6	2494.1	2608.6	2984.9
62.5°	2736.9	2757.7	2894.7	3097.7	2981.5	2667.5	2619.0	2632.8	2735.2	2868.7	3402.9
65°	2629.4	2674.5	2960.6	3226.0	3198.3	2922.5	2903.4	2922.5	2984.9	3128.9	3845.2
67.5°	2273.8	2334.5	2839.2	3312.7	3371.7	3217.3	3189.6	3186.1	3226.0	3387.3	4124.4
70°	2090.0	2126.4	2518.4	3345.7	3510.4	3515.7	3515.7	3493.1	3487.9	3605.8	4150.4
72.5°	1720.5	1758.7	2124.7	3161.8	3642.3	3914.6	3954.5	3871.2	3742.9	3718.6	3715.1
75°	1226.2	1254.0	1569.6	2487.1	3474.0	4297.9	4377.7	4216.4	3859.1	3472.3	2709.1
76°	855.1	895.0	1226.2	2124.7	3262.4	4304.8	4429.7	4242.4	3781.0	3260.7	2232.2
77.5°	433.6	447.5	709.4	1427.4	2730.0	4107.1	4228.5	4018.6	3441.1	2634.6	1417.0
80°	164.8	170.0	253.2	520.3	1498.5	3189.6	3236.4	2953.7	2277.3	1125.6	509.9
82.5°	86.7	90.2	142.2	256.7	615.7	1753.5	1979.0	1647.7	893.2	338.2	149.2
85°	43.4	46.8	83.3	156.1	305.3	548.1	634.8	600.1	296.6	128.3	55.5
87.5°	17.3	20.8	41.6	69.4	123.1	107.5	119.7	154.4	95.4	60.7	19.1
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°	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8	771.8
2.5°	768.3	766.6	768.3	766.6	768.3	768.3	770.1	766.6	766.6	770.1	764.9
5°	756.2	754.5	756.2	759.7	761.4	764.9	771.8	770.1	773.5	777.0	778.8
7.5°	751.0	749.3	754.5	756.2	761.4	768.3	778.8	785.7	789.2	796.1	792.6
10°	756.2	756.2	763.1	768.3	777.0	785.7	794.4	801.3	810.0	815.2	813.4
12.5°	764.9	763.1	775.3	782.2	794.4	803.0	810.0	813.4	820.4	827.3	825.6
15°	773.5	775.3	792.6	806.5	820.4	823.8	825.6	822.1	825.6	829.0	829.0
17.5°	790.9	792.6	811.7	827.3	839.5	836.0	827.3	818.6	818.6	820.4	822.1
20°	804.8	808.2	830.8	844.7	851.6	837.7	823.8	813.4	808.2	810.0	808.2
22.5°	820.4	827.3	849.9	856.8	846.4	829.0	811.7	797.8	797.8	799.6	799.6
25°	839.5	842.9	858.5	855.1	836.0	810.0	796.1	790.9	789.2	790.9	792.6
27.5°	856.8	858.5	867.2	842.9	806.5	778.8	773.5	775.3	777.0	778.8	780.5
30°	879.3	882.8	874.1	825.6	770.1	738.9	738.9	749.3	752.7	757.9	756.2
32.5°	907.1	910.6	884.5	803.0	723.2	692.0	693.8	709.4	719.8	723.2	725.0
35°	953.9	947.0	891.5	771.8	673.0	634.8	636.5	655.6	669.5	674.7	671.2
37.5°	1011.2	1009.4	901.9	731.9	610.5	575.8	577.6	586.2	600.1	601.8	603.6
40°	1106.6	1092.7	919.2	679.9	548.1	515.1	511.7	516.9	515.1	518.6	520.3
42.5°	1243.6	1207.2	941.8	620.9	492.6	457.9	454.4	445.7	435.3	424.9	419.7
45°	1404.9	1347.6	969.5	560.2	435.3	404.1	395.4	385.0	364.2	341.7	334.7
47.5°	1613.0	1503.7	1000.8	499.5	381.6	357.3	350.4	334.7	310.5	284.4	279.2
50°	1826.3	1687.6	1032.0	449.2	338.2	324.3	317.4	301.8	270.6	246.3	241.1
52.5°	2074.4	1869.7	1064.9	404.1	300.1	300.1	294.8	270.6	241.1	218.5	215.1
55°	2360.5	2057.0	1117.0	360.8	272.3	279.2	272.3	248.0	220.3	204.7	202.9
57.5°	2702.2	2294.6	1182.9	313.9	248.0	253.2	253.2	235.9	216.8	206.4	204.7
60°	3045.6	2535.7	1224.5	279.2	228.9	234.1	244.6	235.9	223.7	218.5	216.8
62.5°	3375.2	2782.0	1153.4	249.8	209.9	225.5	251.5	253.2	241.1	242.8	242.8
65°	3621.5	2969.3	933.1	223.7	197.7	230.7	272.3	274.0	253.2	248.0	246.3
67.5°	3706.4	3021.3	627.9	206.4	190.8	234.1	296.6	289.6	253.2	242.8	237.6
70°	3545.1	2830.6	407.6	190.8	180.4	230.7	315.7	298.3	251.5	235.9	228.9
72.5°	2972.8	2414.3	272.3	176.9	170.0	227.2	327.8	298.3	246.3	223.7	216.8
75°	2063.9	1649.4	202.9	159.6	154.4	222.0	331.3	293.1	234.1	209.9	204.7
76°	1656.4	1236.6	183.8	152.6	147.4	218.5	329.5	287.9	225.5	202.9	197.7
77.5°	1045.8	711.1	154.4	140.5	137.0	211.6	322.6	275.8	213.3	190.8	185.6
80°	366.0	260.2	117.9	114.5	116.2	196.0	303.5	251.5	189.1	168.2	161.3
82.5°	145.7	119.7	88.5	88.5	91.9	168.2	274.0	222.0	164.8	138.8	128.3
85°	57.2	52.0	62.4	62.4	65.9	137.0	228.9	173.4	112.7	86.7	83.3
87.5°	17.3	24.3	27.8	29.5	31.2	69.4	130.1	76.3	50.3	36.4	29.5
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)