

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: P594707

Luminaire Tested: **ISS-PA1D-730-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-PA1D-730-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7851 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

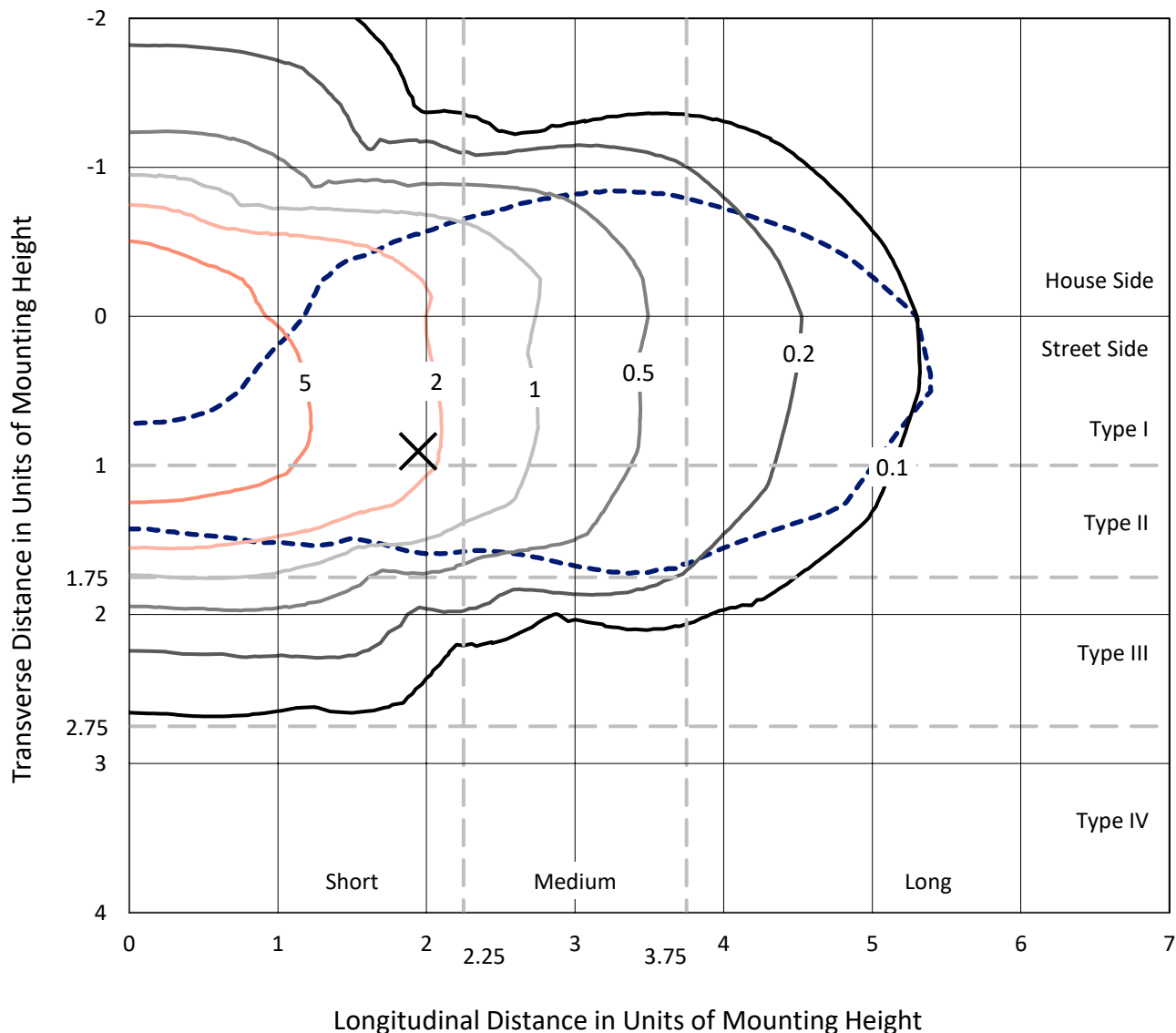
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

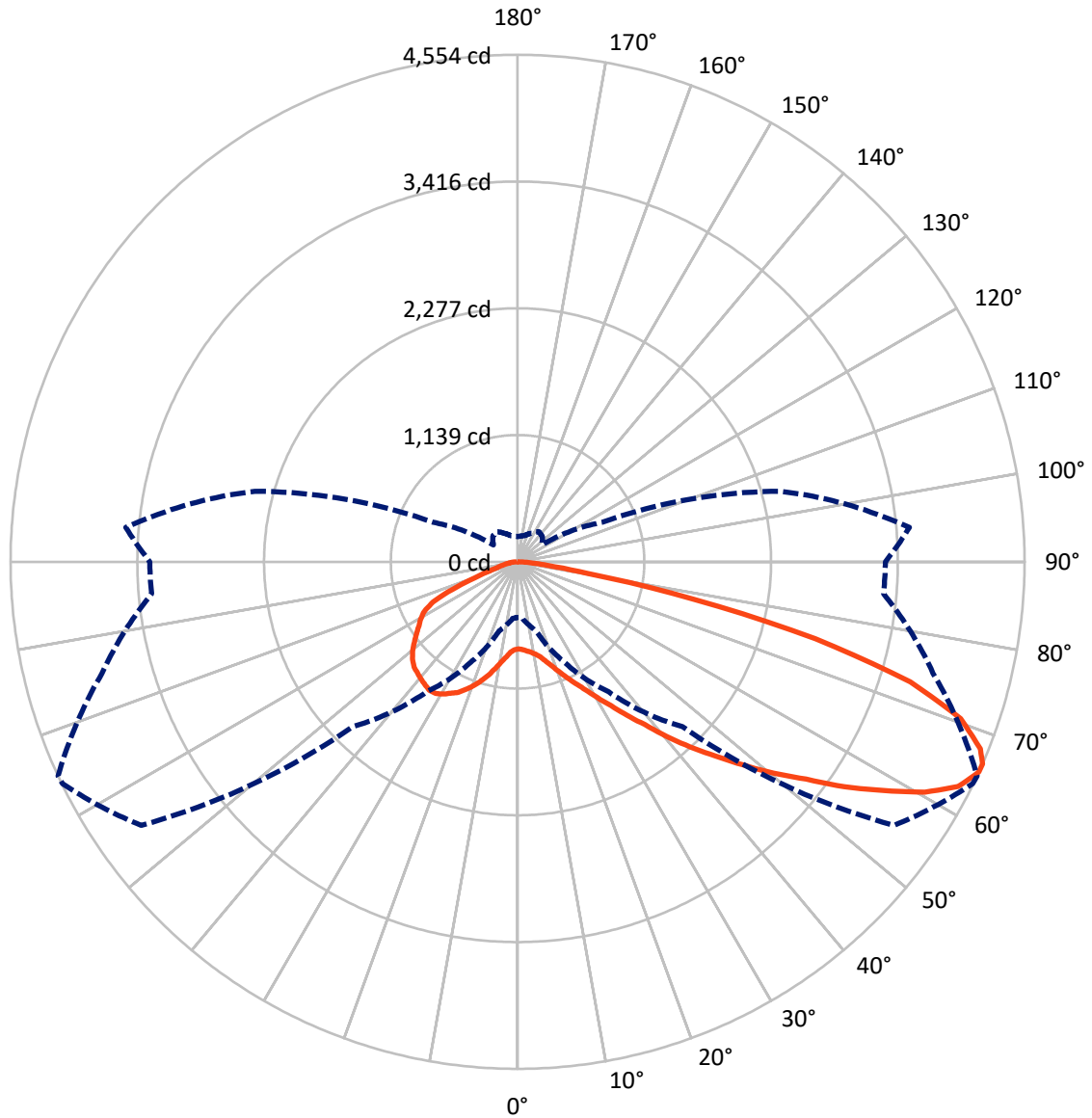
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2383.9	0.0	2383.9
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5467.1	0.0	5467.1
	% Fixture	69.6	0.0	69.6
Total	Lumens	7851.0	0.0	7851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	278.3	3.5
20°-30°	544.9	6.9
30°-40°	890.4	11.3
40°-50°	1413.4	18.0
50°-60°	1817.8	23.2
60°-70°	1639.3	20.9
70°-80°	1016.7	13.0
80°-90°	170.4	2.2
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°	7851.0	100.0
0°-180°	7851.0	100.0

Coefficient of Utilization

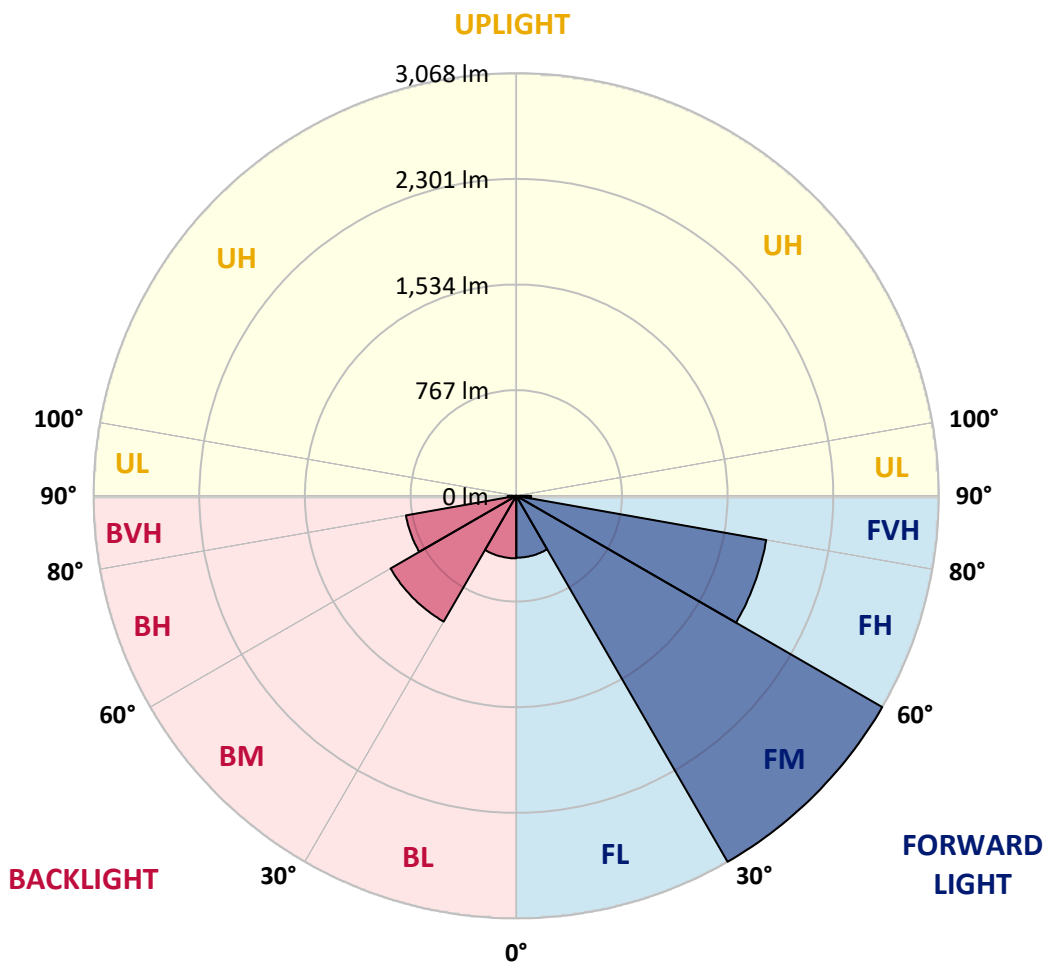


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.0	5.7			
FM (30°-60°)	3067.7	39.1			
FH (60°-80°)	1842.6	23.5			G2/5000
FVH (80°-90°)	107.8	1.4			G2/225
BL (0°-30°)	454.0	5.8	B1/500		
BM (30°-60°)	1053.8	13.4	B2/2500		
BH (60°-80°)	813.4	10.4	B2/1000		G2/1000
BVH (80°-90°)	62.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6
2.5°	784.5	786.4	788.3	784.5	788.3	790.2	786.4	786.4	788.3	784.5	784.5
5°	778.7	780.7	784.5	786.4	794.0	797.8	799.7	799.7	801.6	799.7	801.6
7.5°	763.5	763.5	771.1	774.9	786.4	799.7	807.3	818.7	818.7	820.6	826.4
10°	778.7	778.7	784.5	790.2	799.7	811.1	822.5	835.9	839.7	853.0	860.6
12.5°	801.6	805.4	813.0	820.6	832.1	845.4	854.9	868.2	870.1	883.5	898.7
15°	839.7	843.5	847.3	856.8	872.0	889.2	906.3	915.8	919.6	927.3	938.7
17.5°	896.8	900.6	902.5	908.2	919.6	942.5	967.2	974.9	978.7	978.7	988.2
20°	993.9	992.0	988.2	976.8	976.8	997.7	1032.0	1045.3	1049.1	1041.5	1035.8
22.5°	1106.2	1104.3	1089.1	1075.8	1066.3	1070.1	1104.3	1127.2	1125.3	1110.1	1087.2
25°	1252.9	1256.7	1231.9	1197.6	1169.1	1161.5	1182.4	1205.3	1209.1	1180.5	1142.4
27.5°	1428.0	1422.3	1409.0	1353.8	1298.6	1264.3	1275.7	1300.5	1302.4	1271.9	1211.0
30°	1633.7	1624.1	1589.9	1532.7	1447.1	1399.5	1389.9	1410.9	1416.6	1365.2	1277.6
32.5°	1862.1	1852.6	1808.8	1721.2	1627.9	1548.0	1517.5	1546.1	1542.3	1483.2	1361.4
35°	2138.2	2136.3	2056.4	1947.8	1829.8	1723.2	1681.3	1681.3	1692.7	1605.1	1468.0
37.5°	2507.6	2522.8	2404.8	2235.3	2069.7	1926.9	1856.4	1852.6	1854.5	1759.3	1588.0
40°	2840.8	2835.1	2766.6	2608.5	2366.7	2183.9	2079.2	2056.4	2062.1	1940.2	1744.1
42.5°	3033.1	3038.8	3021.7	2953.2	2741.8	2511.4	2332.4	2271.5	2273.4	2121.1	1892.6
45°	3153.1	3158.8	3156.9	3191.2	3107.4	2890.3	2635.2	2494.3	2486.7	2326.7	2067.8
47.5°	3221.6	3225.4	3250.2	3320.6	3389.2	3339.7	2970.3	2741.8	2726.6	2519.0	2243.0
50°	3145.5	3147.4	3246.4	3413.9	3581.5	3731.9	3313.0	2987.4	2983.6	2732.3	2414.3
52.5°	2745.6	2779.9	2998.9	3349.2	3724.3	4009.9	3709.1	3276.8	3244.5	2934.1	2585.7
55°	2241.0	2256.3	2507.6	2953.2	3697.6	4181.3	4008.0	3589.1	3566.3	3158.8	2753.2
57.5°	1749.8	1765.0	2064.0	2435.3	3290.2	4171.7	4219.3	3926.1	3874.7	3354.9	2920.8
60°	1129.1	1176.7	1523.2	1980.2	2663.7	3882.3	4326.0	4249.8	4202.2	3549.1	3063.6
62.5°	767.3	774.9	992.0	1468.0	1993.5	3155.0	4318.3	4449.7	4442.1	3743.3	3206.4
65°	498.9	510.3	641.7	993.9	1426.1	2094.4	4127.9	4546.8	4554.4	3863.3	3299.7
66°	422.7	430.3	531.2	835.9	1249.0	1660.3	3960.4	4539.2	4554.4	3918.5	3328.3
67.5°	367.5	373.2	424.6	616.9	1020.6	1193.8	3524.4	4438.3	4482.1	3969.9	3364.4
70°	316.1	323.7	371.3	420.8	729.2	696.9	2231.5	4179.4	4223.1	3994.7	3387.3
72.5°	260.9	266.6	314.2	380.8	529.3	468.4	984.4	3577.7	3688.1	3903.3	3351.1
75°	205.6	209.4	253.2	318.0	405.6	365.6	428.4	2623.8	2762.8	3440.6	3210.2
77.5°	159.9	161.8	196.1	247.5	371.3	283.7	264.7	1277.6	1616.5	2658.0	2827.5
80°	110.4	114.2	144.7	186.6	272.3	224.7	177.1	498.9	634.0	1765.0	2143.9
82.5°	72.4	74.3	99.0	140.9	180.9	215.2	116.1	241.8	266.6	813.0	929.2
85°	49.5	49.5	70.4	87.6	123.8	142.8	76.2	127.6	139.0	308.5	112.3
87.5°	24.8	24.8	34.3	45.7	59.0	55.2	45.7	45.7	45.7	100.9	32.4
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°	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6	782.6
2.5°	786.4	786.4	788.3	790.2	792.1	792.1	794.0	794.0	792.1	794.0	795.9
5°	803.5	805.4	809.2	814.9	824.4	834.0	843.5	849.2	854.9	856.8	853.0
7.5°	830.2	834.0	847.3	862.5	877.8	900.6	913.9	921.6	925.4	929.2	925.4
10°	864.4	872.0	891.1	917.7	944.4	973.0	988.2	999.6	1001.5	1005.3	1001.5
12.5°	904.4	917.7	946.3	984.4	1016.8	1045.3	1056.7	1049.1	1032.0	1024.4	1022.5
15°	952.0	965.3	1005.3	1052.9	1091.0	1104.3	1087.2	1062.5	1043.4	1041.5	1039.6
17.5°	993.9	1012.9	1068.2	1117.7	1153.8	1140.5	1094.8	1079.6	1073.9	1081.5	1079.6
20°	1047.2	1062.5	1117.7	1178.6	1197.6	1146.2	1113.9	1104.3	1098.6	1098.6	1094.8
22.5°	1091.0	1102.4	1169.1	1235.7	1224.3	1150.0	1127.2	1108.1	1089.1	1087.2	1081.5
25°	1142.4	1146.2	1216.7	1289.0	1228.1	1153.8	1113.9	1081.5	1062.5	1056.7	1058.6
27.5°	1190.0	1199.5	1260.5	1325.2	1218.6	1132.9	1068.2	1026.3	997.7	995.8	995.8
30°	1251.0	1251.0	1306.2	1365.2	1197.6	1079.6	993.9	933.0	910.1	908.2	904.4
32.5°	1319.5	1308.1	1361.4	1393.8	1151.9	1007.2	893.0	824.4	788.3	780.7	774.9
35°	1414.7	1389.9	1428.0	1399.5	1106.2	904.4	765.4	687.4	660.7	649.3	649.3
37.5°	1525.1	1489.0	1528.9	1382.3	1035.8	784.5	632.1	573.1	544.6	527.4	533.1
40°	1654.6	1608.9	1631.8	1363.3	959.6	651.2	521.7	485.5	451.3	428.4	428.4
42.5°	1806.9	1730.8	1747.9	1344.2	851.1	535.0	451.3	426.5	399.8	377.0	382.7
45°	1953.5	1879.3	1862.1	1325.2	736.9	457.0	422.7	405.6	380.8	354.2	354.2
47.5°	2123.0	2027.8	1963.1	1290.9	624.5	432.2	430.3	405.6	358.0	319.9	316.1
50°	2282.9	2195.4	2054.5	1239.5	561.7	453.2	428.4	369.4	323.7	298.9	297.0
52.5°	2452.4	2361.0	2128.7	1176.7	529.3	443.6	394.1	338.9	304.6	279.9	274.2
55°	2620.0	2572.3	2195.4	1115.8	477.9	413.2	365.6	319.9	283.7	260.9	257.0
57.5°	2810.4	2791.3	2252.5	1054.8	397.9	375.1	344.6	306.5	272.3	255.1	253.2
60°	2976.0	3042.6	2321.0	1009.1	338.9	346.5	335.1	304.6	279.9	260.9	260.9
62.5°	3151.2	3284.5	2381.9	950.1	295.1	329.4	337.0	302.7	270.4	253.2	253.2
65°	3303.5	3532.0	2444.8	841.6	264.7	316.1	331.3	281.8	243.7	230.4	226.6
66°	3368.2	3602.4	2463.8	774.9	253.2	306.5	321.8	270.4	232.3	220.9	219.0
67.5°	3444.4	3712.9	2486.7	632.1	236.1	285.6	300.8	253.2	213.3	205.6	201.8
70°	3551.0	3735.7	2473.3	413.2	205.6	245.6	268.5	226.6	190.4	184.7	179.0
72.5°	3562.4	3579.6	2340.1	260.9	179.0	211.3	236.1	203.7	167.6	161.8	158.0
75°	3373.9	3172.1	1980.2	186.6	158.0	186.6	207.5	177.1	139.0	131.4	127.6
77.5°	2880.8	2517.1	1424.2	139.0	137.1	159.9	173.3	154.2	116.1	110.4	108.5
80°	2022.1	1707.9	714.0	104.7	108.5	133.3	144.7	129.5	97.1	89.5	85.7
82.5°	818.7	725.4	245.6	78.1	81.9	100.9	123.8	106.6	74.3	64.7	57.1
85°	93.3	158.0	106.6	53.3	55.2	68.5	83.8	64.7	43.8	36.2	30.5
87.5°	19.0	34.3	38.1	20.9	19.0	26.7	38.1	22.8	15.2	5.7	7.6
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)