

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: P594727

Luminaire Tested: **ISS-PA1D-740-U-T3**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: ISS-PA1D-740-U-T3
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8524 lumens
Efficiency: N/A
Efficacy: 135.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

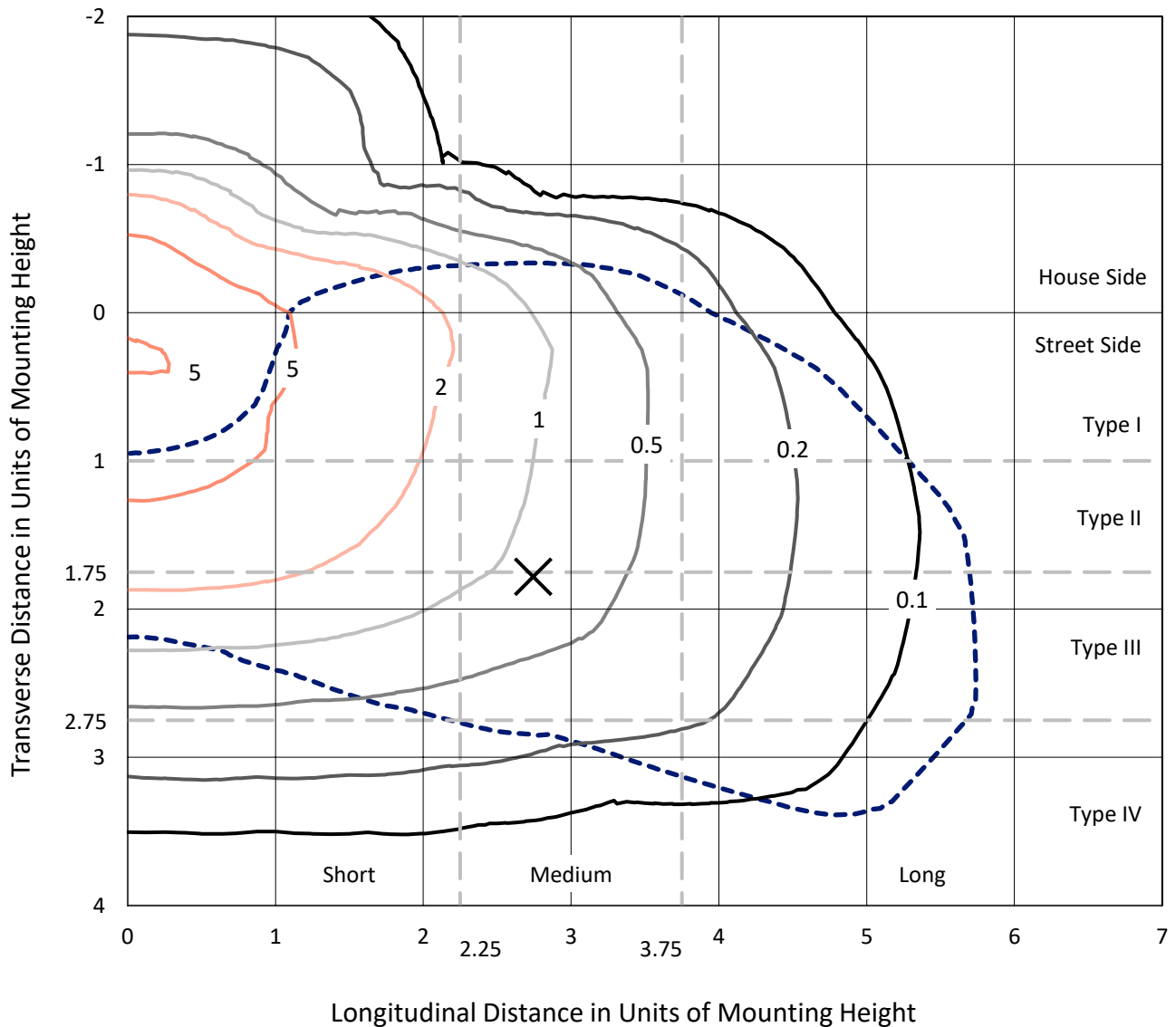
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

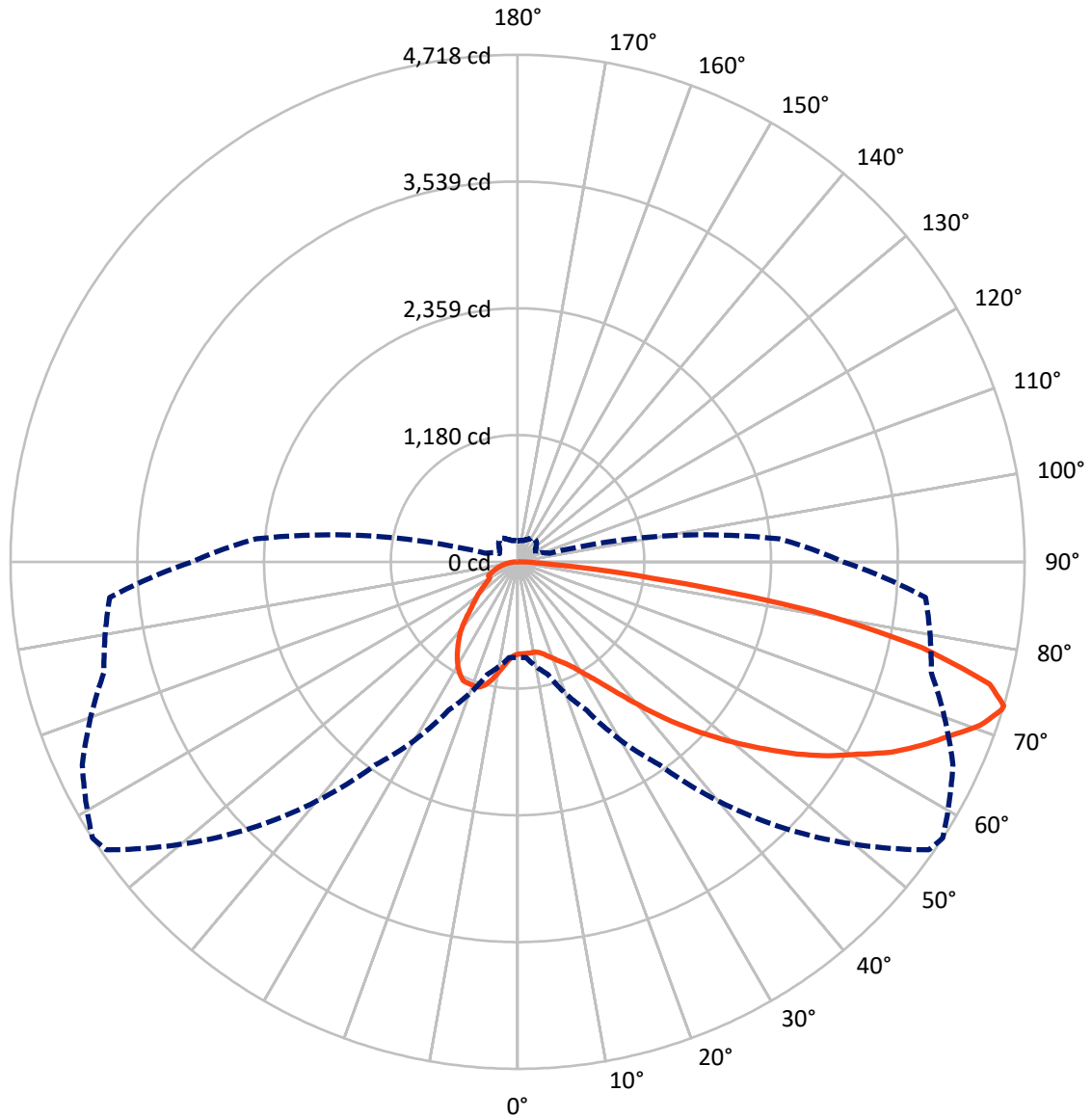
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2033.5	0.0	2033.5
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6490.5	0.0	6490.5
	% Fixture	76.1	0.0	76.1
Total	Lumens	8524.0	0.0	8524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.0
10°-20°	282.0	3.3
20°-30°	520.6	6.1
30°-40°	803.9	9.4
40°-50°	1210.0	14.2
50°-60°	1770.9	20.8
60°-70°	2091.3	24.5
70°-80°	1497.3	17.6
80°-90°	262.3	3.1
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°	8524.0	100.0
0°-180°	8524.0	100.0

Coefficient of Utilization



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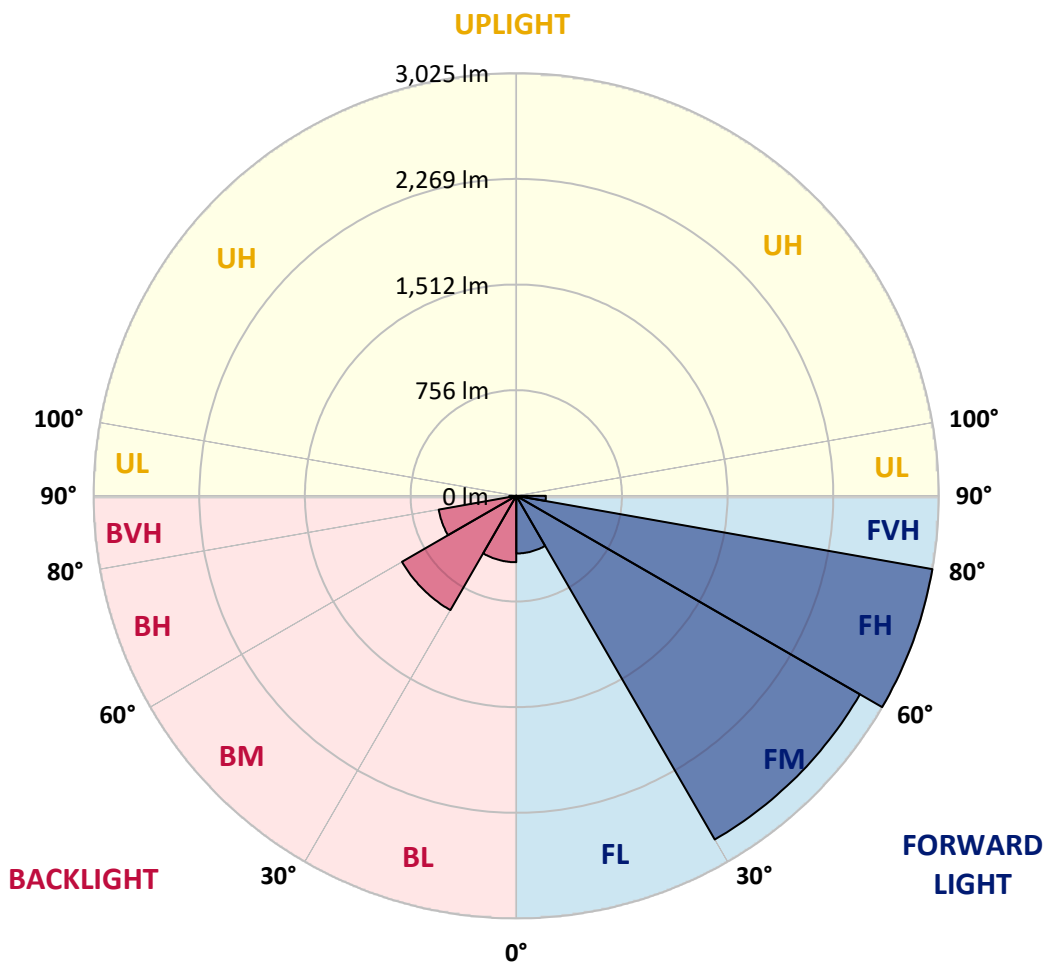
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	413.0	4.8			
FM (30°-60°)	2840.4	33.3			
FH (60°-80°)	3024.8	35.5			G2/5000
FVH (80°-90°)	212.2	2.5			G2/225
BL (0°-30°)	475.3	5.6	B1/500		
BM (30°-60°)	944.3	11.1	B1/1000		
BH (60°-80°)	563.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	50.1	0.6			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8
2.5°	848.3	852.5	850.4	852.5	858.8	854.6	854.6	856.7	858.8	856.7	860.9
5°	812.8	814.9	819.1	827.5	842.1	846.3	856.7	856.7	860.9	865.1	871.3
7.5°	754.3	758.5	766.9	775.2	800.3	825.4	852.5	856.7	871.3	881.8	886.0
10°	743.9	748.1	750.1	762.7	787.8	812.8	846.3	854.6	881.8	898.5	917.3
12.5°	733.4	737.6	743.9	760.6	791.9	819.1	854.6	863.0	896.4	929.8	952.8
15°	741.8	743.9	750.1	766.9	798.2	835.8	881.8	888.1	925.7	967.5	1003.0
17.5°	762.7	764.8	762.7	777.3	806.6	850.4	913.1	923.6	969.5	1011.3	1046.9
20°	810.7	812.8	804.5	804.5	825.4	869.2	946.6	961.2	1017.6	1063.6	1099.1
22.5°	915.2	911.0	890.1	863.0	863.0	898.5	984.2	1005.1	1076.1	1113.7	1145.1
25°	1063.6	1063.6	1030.1	980.0	946.6	942.4	1028.0	1051.0	1134.6	1180.6	1199.4
27.5°	1243.3	1245.4	1191.0	1124.2	1059.4	1028.0	1090.7	1113.7	1207.7	1255.8	1262.1
30°	1402.1	1404.2	1349.8	1287.2	1207.7	1138.8	1174.3	1199.4	1308.0	1345.7	1324.8
32.5°	1560.9	1563.0	1525.4	1439.7	1356.1	1270.4	1280.9	1295.5	1406.3	1441.8	1408.3
35°	1698.8	1705.1	1667.4	1602.7	1514.9	1437.6	1418.8	1420.9	1521.2	1544.2	1500.3
37.5°	1838.8	1838.8	1815.8	1755.2	1680.0	1594.3	1569.2	1575.5	1665.4	1688.3	1625.7
40°	2016.4	2024.8	2012.2	1937.0	1851.3	1780.3	1755.2	1763.6	1861.8	1849.2	1782.4
42.5°	2231.6	2250.4	2229.5	2148.0	2056.1	1976.7	1976.7	1976.7	2060.3	2062.4	1962.1
45°	2507.4	2507.4	2486.5	2415.5	2294.3	2214.9	2187.7	2194.0	2267.1	2275.5	2158.5
47.5°	2737.3	2758.2	2735.2	2683.0	2586.8	2511.6	2425.9	2415.5	2476.1	2476.1	2375.8
50°	2923.3	2960.9	2942.1	2965.0	2896.1	2858.5	2683.0	2653.7	2674.6	2695.5	2584.7
52.5°	3077.9	3107.1	3100.9	3167.7	3201.2	3222.1	2944.1	2898.2	2914.9	2912.8	2812.5
55°	3088.3	3098.8	3192.8	3343.2	3474.9	3573.1	3207.4	3157.3	3140.6	3132.2	3054.9
57.5°	3027.7	3034.0	3222.1	3399.7	3685.9	3798.8	3456.1	3405.9	3382.9	3353.7	3322.4
60°	2881.5	2912.8	3159.4	3433.1	3811.3	3974.3	3688.0	3635.8	3619.1	3556.4	3627.4
62.5°	2695.5	2710.1	2956.7	3364.1	3828.0	4049.5	3932.5	3901.2	3848.9	3759.1	3899.1
65°	2432.2	2430.1	2647.4	3161.5	3742.3	4087.1	4139.4	4122.6	4057.9	3903.2	4141.4
67.5°	1997.6	2045.6	2258.8	2802.1	3535.5	4124.7	4350.4	4329.5	4227.1	4032.8	4256.4
70°	1523.3	1552.5	1794.9	2263.0	3123.8	4022.3	4557.3	4563.5	4377.6	4060.0	4206.2
72.5°	971.6	1021.8	1214.0	1648.6	2501.2	3642.1	4680.5	4709.8	4461.1	4022.3	3894.9
73°	890.1	894.3	1082.4	1525.4	2306.8	3506.2	4672.2	4718.2	4469.5	3984.7	3809.2
75°	530.7	553.7	666.6	1013.4	1646.5	2816.7	4446.5	4538.5	4425.6	3817.6	3339.1
77.5°	248.7	265.4	328.1	534.9	896.4	1694.6	3738.2	3846.8	3922.0	3341.2	2545.0
80°	131.6	133.7	160.9	269.5	480.6	697.9	2605.6	2785.3	2891.9	2515.8	1711.3
82.5°	110.7	110.7	125.4	173.4	307.2	271.6	1074.0	1278.8	1567.1	1239.1	672.8
85°	89.8	91.9	125.4	129.6	219.4	140.0	257.0	321.8	608.1	547.5	75.2
87.5°	29.3	33.4	71.0	91.9	117.0	54.3	64.8	71.0	71.0	104.5	25.1
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°	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8	858.8
2.5°	863.0	863.0	865.1	867.2	871.3	871.3	875.5	877.6	881.8	883.9	877.6
5°	871.3	875.5	879.7	892.2	906.9	919.4	931.9	942.4	952.8	959.1	957.0
7.5°	894.3	900.6	917.3	940.3	969.5	988.3	1007.2	1026.0	1034.3	1038.5	1038.5
10°	925.7	938.2	969.5	1007.2	1040.6	1069.8	1084.5	1097.0	1101.2	1105.4	1101.2
12.5°	969.5	986.3	1034.3	1082.4	1120.0	1134.6	1132.5	1115.8	1092.8	1088.6	1084.5
15°	1026.0	1046.9	1101.2	1157.6	1186.9	1168.0	1120.0	1103.3	1099.1	1111.6	1107.5
17.5°	1074.0	1099.1	1166.0	1224.5	1218.2	1153.4	1138.8	1147.2	1143.0	1145.1	1145.1
20°	1120.0	1155.5	1226.6	1266.3	1211.9	1170.1	1157.6	1147.2	1134.6	1138.8	1134.6
22.5°	1178.5	1203.6	1285.1	1287.2	1203.6	1170.1	1143.0	1122.1	1117.9	1120.0	1122.1
25°	1224.5	1264.2	1335.2	1272.5	1203.6	1136.7	1099.1	1094.9	1097.0	1109.5	1105.4
27.5°	1287.2	1326.9	1374.9	1264.2	1153.4	1082.4	1067.7	1065.7	1051.0	1055.2	1055.2
30°	1345.7	1393.7	1395.8	1264.2	1090.7	1036.4	1015.5	977.9	946.6	952.8	950.7
32.5°	1425.1	1466.8	1400.0	1214.0	1019.7	975.8	919.4	860.9	846.3	854.6	856.7
35°	1517.0	1550.4	1404.2	1130.4	948.6	890.1	787.8	754.3	752.2	758.5	764.8
37.5°	1638.2	1657.0	1435.5	1034.3	879.7	756.4	677.0	668.6	649.8	637.3	639.4
40°	1786.5	1763.6	1496.1	948.6	798.2	635.2	601.8	578.8	543.3	507.8	514.0
42.5°	1951.6	1886.8	1514.9	879.7	687.5	560.0	528.7	493.1	449.2	411.6	409.5
45°	2129.2	2024.8	1498.2	825.4	576.7	503.6	470.1	428.4	376.1	344.8	344.8
47.5°	2340.3	2156.4	1446.0	781.5	499.4	453.4	411.6	369.8	334.3	305.1	305.1
50°	2572.2	2308.9	1408.3	704.2	445.1	405.4	363.6	330.1	303.0	280.0	280.0
52.5°	2816.7	2453.1	1377.0	591.3	397.0	361.5	332.2	305.1	282.1	252.8	248.7
55°	3065.3	2591.0	1391.6	482.7	353.1	330.1	311.3	284.2	275.8	269.5	265.4
57.5°	3324.4	2741.5	1427.1	394.9	315.5	313.4	305.1	323.9	342.7	330.1	323.9
60°	3527.1	2858.5	1431.3	332.2	292.5	330.1	371.9	378.2	328.1	298.8	296.7
62.5°	3688.0	2969.2	1333.1	288.4	298.8	388.7	397.0	334.3	284.2	271.6	271.6
65°	3771.6	3008.9	1071.9	263.3	311.3	371.9	359.4	300.9	265.4	263.3	263.3
67.5°	3729.8	2977.6	750.1	236.1	275.8	321.8	321.8	275.8	244.5	254.9	250.7
70°	3529.2	2823.0	495.2	213.1	242.4	290.4	298.8	257.0	227.8	234.0	227.8
72.5°	3111.3	2547.1	326.0	188.1	209.0	257.0	277.9	236.1	209.0	206.9	200.6
73°	3029.8	2442.7	307.2	183.9	202.7	248.7	271.6	231.9	204.8	198.5	194.3
75°	2570.1	2037.3	231.9	165.1	179.7	223.6	252.8	217.3	188.1	179.7	175.5
77.5°	1872.2	1412.5	173.4	140.0	150.4	194.3	223.6	198.5	167.2	156.7	154.6
80°	1168.0	768.9	129.6	112.8	119.1	163.0	196.4	177.6	144.2	131.6	129.6
82.5°	457.6	250.7	89.8	83.6	87.8	123.3	165.1	154.6	121.2	110.7	104.5
85°	75.2	85.7	58.5	56.4	56.4	87.8	125.4	119.1	81.5	71.0	62.7
87.5°	20.9	39.7	23.0	20.9	20.9	37.6	69.0	54.3	33.4	27.2	25.1
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)