

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: P594846

Luminaire Tested: **ISS-PA1E-830-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594846  
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: ISS-PA1E-830-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8260 lumens  
Efficiency: N/A  
Efficacy: 100.2 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

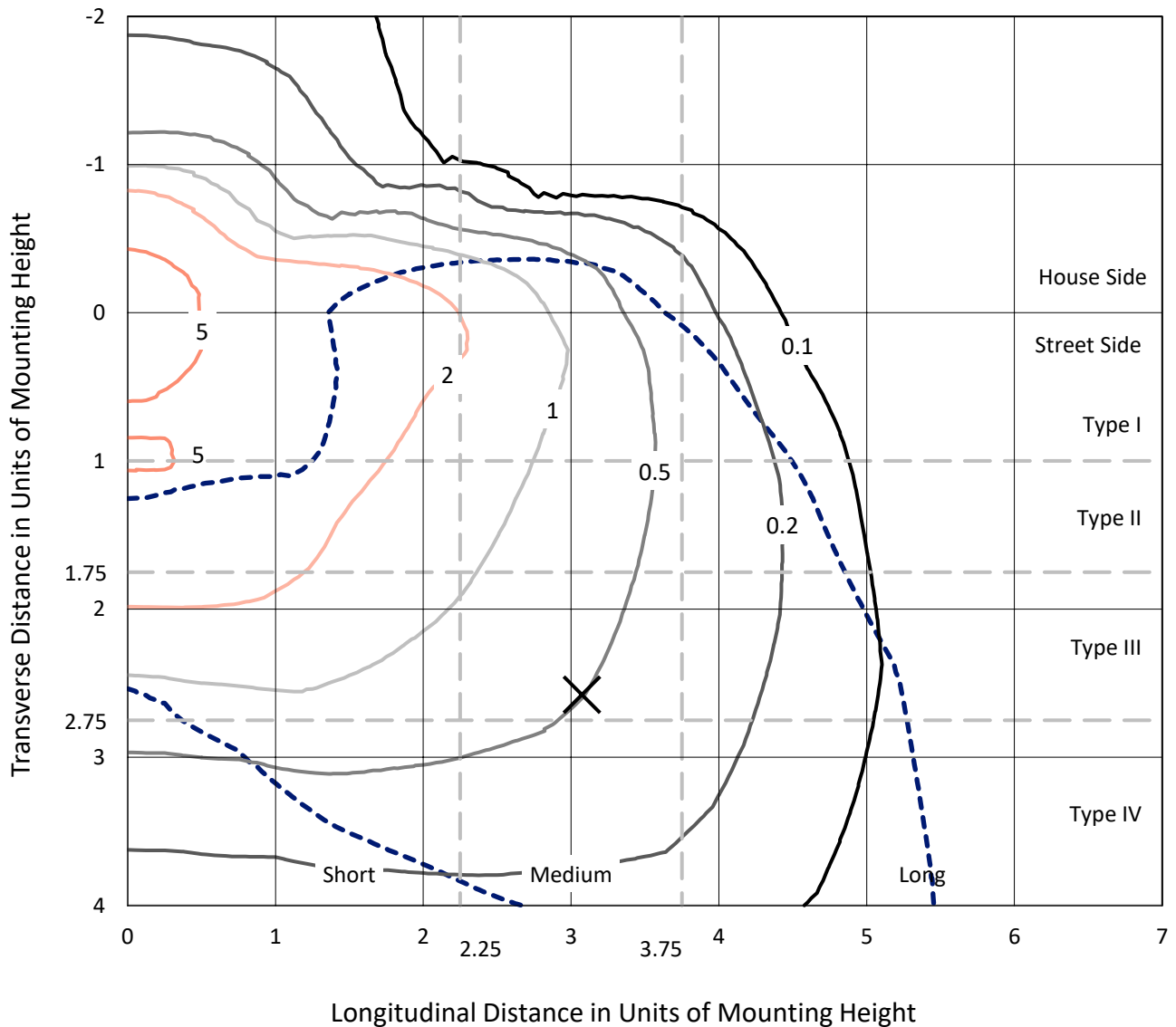
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

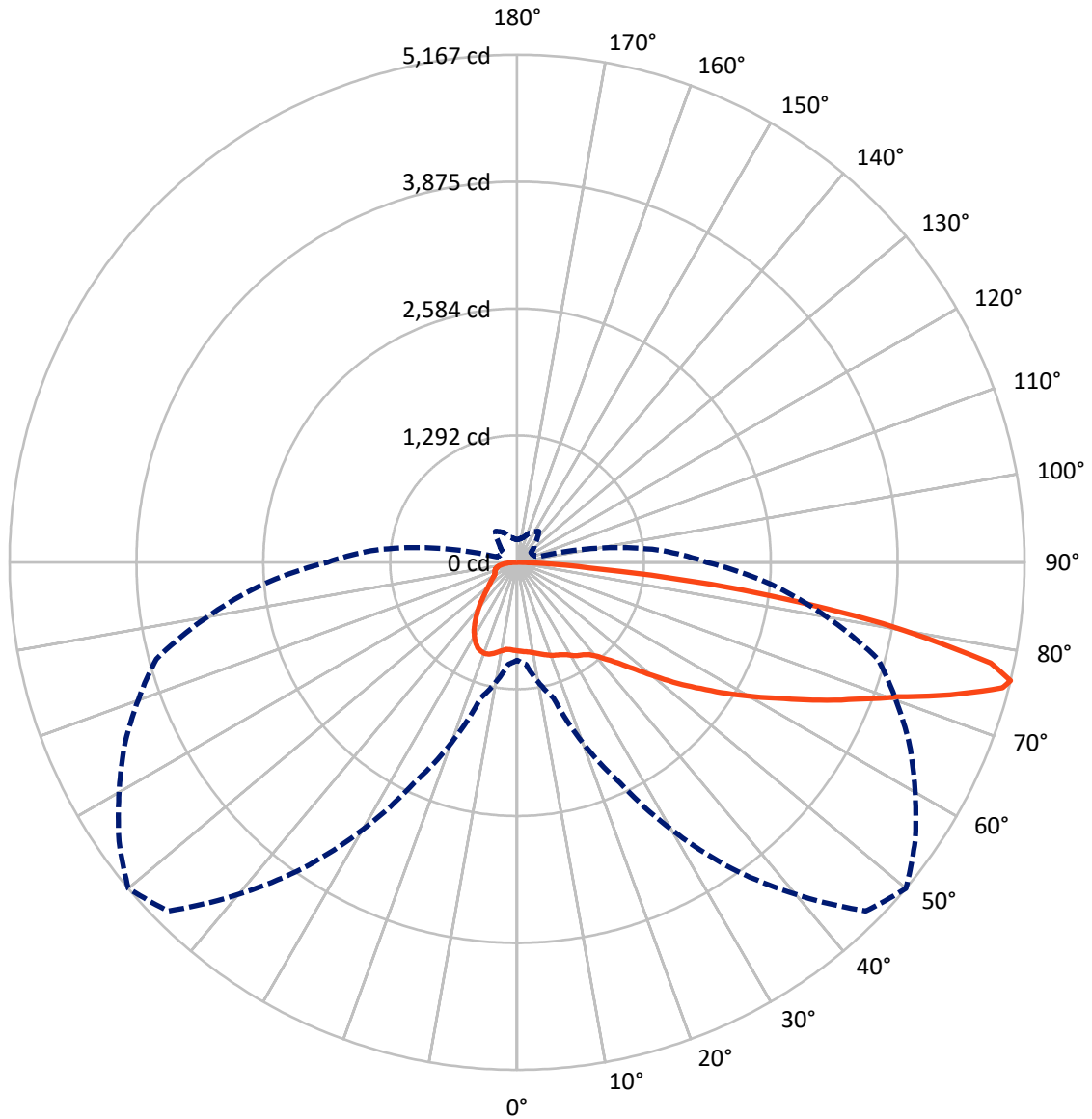
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 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
<b>House Side</b>	Lumens	1889.6	0.0	1889.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6370.4	0.0	6370.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8260.0	0.0	8260.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.4	1.1
10°-20°	274.9	3.3
20°-30°	464.3	5.6
30°-40°	636.4	7.7
40°-50°	937.3	11.3
50°-60°	1474.4	17.9
60°-70°	2122.3	25.7
70°-80°	1929.8	23.4
80°-90°	333.2	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°	8260.0	100.0
0°-180°	8260.0	100.0

**Coefficient of Utilization**

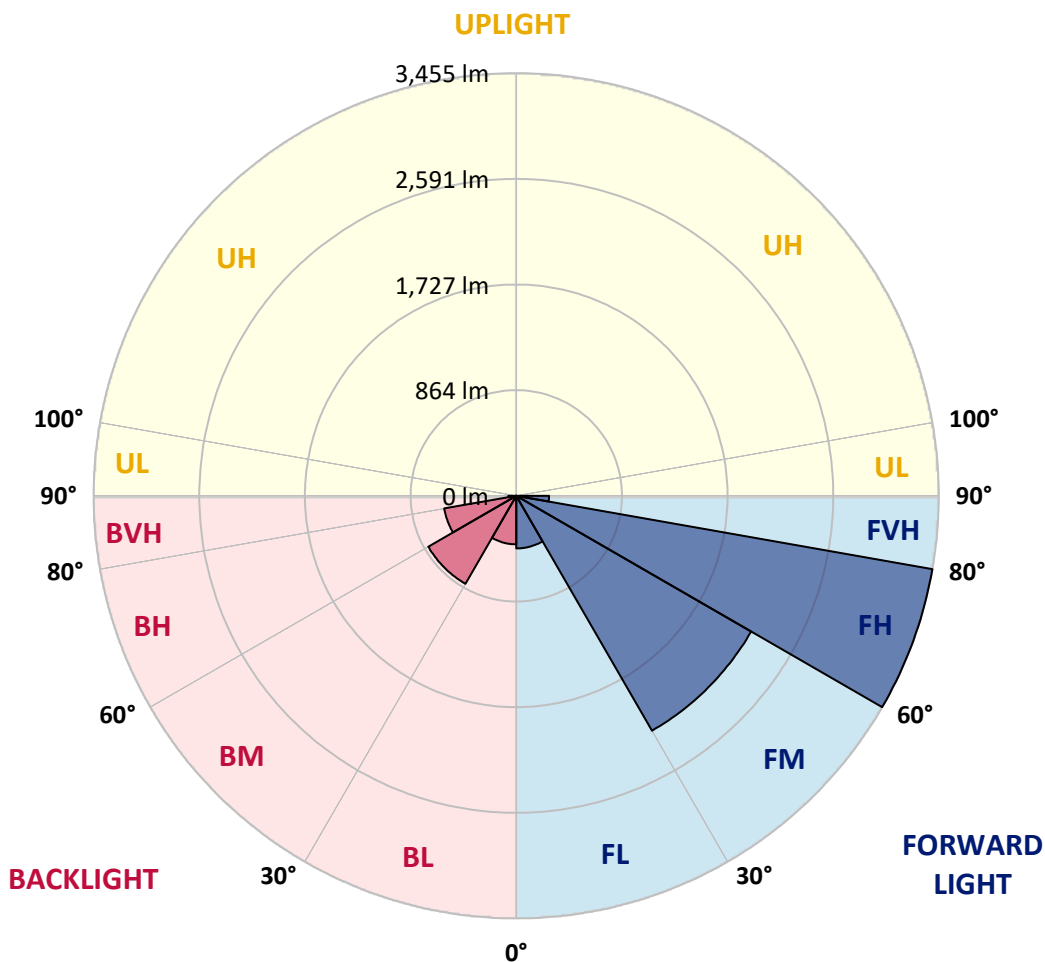


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.9	5.2			
FM (30°-60°)	2217.7	26.8			
FH (60°-80°)	3454.7	41.8			G2/5000
FVH (80°-90°)	268.2	3.2			G3/500
BL (0°-30°)	396.7	4.8	B1/500		
BM (30°-60°)	830.5	10.1	B1/1000		
BH (60°-80°)	597.4	7.2	B2/1000		G2/1000
BVH (80°-90°)	65.0	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°	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3
2.5°	920.6	920.6	922.6	918.5	918.5	908.4	908.4	906.4	902.3	900.3	896.3
5°	954.9	954.9	948.9	938.8	932.7	920.6	914.5	910.4	902.3	892.2	882.1
7.5°	991.4	987.3	983.3	967.1	954.9	932.7	922.6	916.5	900.3	886.2	880.1
10°	1029.8	1023.7	1013.6	993.4	975.2	948.9	936.7	928.6	910.4	898.3	884.1
12.5°	1052.1	1052.1	1039.9	1015.6	991.4	959.0	952.9	942.8	924.6	908.4	894.3
15°	1074.3	1076.3	1064.2	1035.9	1007.6	983.3	973.2	967.1	946.9	922.6	904.4
17.5°	1096.6	1094.5	1082.4	1050.0	1019.7	997.4	991.4	983.3	963.0	940.8	922.6
20°	1112.8	1108.7	1104.7	1064.2	1033.9	1019.7	1011.6	1005.5	985.3	961.0	936.7
22.5°	1116.8	1120.8	1116.8	1068.2	1044.0	1027.8	1025.8	1019.7	1003.5	981.2	957.0
25°	1118.8	1120.8	1126.9	1080.4	1058.1	1046.0	1041.9	1037.9	1025.8	1007.6	975.2
27.5°	1128.9	1131.0	1131.0	1088.5	1076.3	1068.2	1064.2	1064.2	1058.1	1035.9	1003.5
30°	1131.0	1133.0	1137.0	1108.7	1104.7	1098.6	1100.6	1098.6	1088.5	1064.2	1027.8
32.5°	1145.1	1147.2	1157.3	1120.8	1124.9	1131.0	1133.0	1131.0	1110.7	1090.5	1060.2
35°	1191.7	1189.6	1197.7	1151.2	1147.2	1149.2	1155.2	1153.2	1145.1	1126.9	1106.7
37.5°	1341.4	1341.4	1319.1	1222.0	1191.7	1187.6	1191.7	1201.8	1203.8	1187.6	1171.4
40°	1604.4	1590.2	1578.1	1367.7	1270.6	1246.3	1258.4	1264.5	1280.7	1280.7	1280.7
42.5°	1875.5	1877.5	1873.5	1594.3	1412.2	1351.5	1353.5	1367.7	1402.1	1408.1	1426.4
45°	2116.3	2130.4	2160.8	1857.3	1620.6	1485.0	1470.9	1485.0	1533.6	1574.0	1620.6
47.5°	2304.4	2288.2	2355.0	2132.4	1859.3	1667.1	1630.7	1634.7	1701.5	1766.2	1839.1
50°	2466.3	2470.3	2500.7	2413.7	2160.8	1873.5	1824.9	1816.8	1911.9	1980.7	2104.1
52.5°	2648.4	2636.2	2680.7	2660.5	2454.1	2126.4	2049.5	2025.2	2128.4	2225.5	2359.0
55°	2735.4	2747.5	2838.5	2889.1	2731.3	2353.0	2268.0	2276.1	2385.3	2488.5	2674.7
57.5°	2889.1	2901.3	3006.5	3111.7	2978.1	2593.7	2518.9	2518.9	2642.3	2757.6	3044.9
60°	3099.5	3101.6	3208.8	3390.9	3194.6	2826.4	2777.8	2775.8	2909.4	3042.9	3481.9
62.5°	3192.6	3216.9	3376.7	3613.4	3477.9	3111.7	3055.0	3071.2	3190.6	3346.4	3969.5
65°	3067.2	3119.8	3453.6	3763.1	3730.8	3409.1	3386.8	3409.1	3481.9	3649.8	4485.4
67.5°	2652.4	2723.2	3312.0	3864.3	3933.1	3753.0	3720.7	3716.6	3763.1	3951.3	4811.2
70°	2437.9	2480.4	2937.7	3902.7	4094.9	4101.0	4101.0	4074.7	4068.6	4206.2	4841.5
72.5°	2007.0	2051.5	2478.4	3688.3	4248.7	4566.3	4612.9	4515.8	4366.1	4337.7	4333.7
75°	1430.4	1462.8	1831.0	2901.3	4052.5	5013.5	5106.5	4918.4	4501.6	4050.4	3160.2
76°	997.4	1044.0	1430.4	2478.4	3805.6	5021.6	5167.2	4948.7	4410.6	3803.6	2603.9
77.5°	505.8	522.0	827.5	1665.1	3184.5	4790.9	4932.5	4687.7	4014.0	3073.2	1652.9
80°	192.2	198.3	295.4	607.0	1748.0	3720.7	3775.3	3445.5	2656.5	1313.1	594.8
82.5°	101.2	105.2	165.9	299.4	718.2	2045.4	2308.5	1922.0	1041.9	394.5	174.0
85°	50.6	54.6	97.1	182.1	356.1	639.3	740.5	700.0	346.0	149.7	64.7
87.5°	20.2	24.3	48.6	80.9	143.6	125.4	139.6	180.1	111.3	70.8	22.3
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°	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3	900.3
2.5°	896.3	894.3	896.3	894.3	896.3	896.3	898.3	894.3	894.3	898.3	892.2
5°	882.1	880.1	882.1	886.2	888.2	892.2	900.3	898.3	902.3	906.4	908.4
7.5°	876.0	874.0	880.1	882.1	888.2	896.3	908.4	916.5	920.6	928.6	924.6
10°	882.1	882.1	890.2	896.3	906.4	916.5	926.6	934.7	944.8	950.9	948.9
12.5°	892.2	890.2	904.4	912.5	926.6	936.7	944.8	948.9	957.0	965.1	963.0
15°	902.3	904.4	924.6	940.8	957.0	961.0	963.0	959.0	963.0	967.1	967.1
17.5°	922.6	924.6	946.9	965.1	979.2	975.2	965.1	954.9	954.9	957.0	959.0
20°	938.8	942.8	969.1	985.3	993.4	977.2	961.0	948.9	942.8	944.8	942.8
22.5°	957.0	965.1	991.4	999.5	987.3	967.1	946.9	930.7	930.7	932.7	932.7
25°	979.2	983.3	1001.5	997.4	975.2	944.8	928.6	922.6	920.6	922.6	924.6
27.5°	999.5	1001.5	1011.6	983.3	940.8	908.4	902.3	904.4	906.4	908.4	910.4
30°	1025.8	1029.8	1019.7	963.0	898.3	861.9	861.9	874.0	878.1	884.1	882.1
32.5°	1058.1	1062.2	1031.8	936.7	843.7	807.3	809.3	827.5	839.6	843.7	845.7
35°	1112.8	1104.7	1039.9	900.3	785.0	740.5	742.5	764.8	781.0	787.0	783.0
37.5°	1179.5	1177.5	1052.1	853.8	712.2	671.7	673.7	683.8	700.0	702.0	704.1
40°	1290.8	1274.6	1072.3	793.1	639.3	600.9	596.8	602.9	600.9	604.9	607.0
42.5°	1450.6	1408.1	1098.6	724.3	574.6	534.1	530.1	520.0	507.8	495.7	489.6
45°	1638.8	1572.0	1131.0	653.5	507.8	471.4	461.3	449.1	424.9	398.6	390.5
47.5°	1881.6	1754.1	1167.4	582.7	445.1	416.8	408.7	390.5	362.2	331.8	325.7
50°	2130.4	1968.6	1203.8	524.0	394.5	378.3	370.2	352.0	315.6	287.3	281.2
52.5°	2419.7	2181.0	1242.2	471.4	350.0	350.0	343.9	315.6	281.2	254.9	250.9
55°	2753.6	2399.5	1302.9	420.8	317.6	325.7	317.6	289.3	256.9	238.7	236.7
57.5°	3152.1	2676.7	1379.8	366.2	289.3	295.4	295.4	275.2	252.9	240.8	238.7
60°	3552.7	2957.9	1428.4	325.7	267.1	273.1	285.3	275.2	261.0	254.9	252.9
62.5°	3937.1	3245.2	1345.4	291.3	244.8	263.0	293.4	295.4	281.2	283.2	283.2
65°	4224.4	3463.7	1088.5	261.0	230.6	269.1	317.6	319.7	295.4	289.3	287.3
67.5°	4323.6	3524.4	732.4	240.8	222.6	273.1	346.0	337.9	295.4	283.2	277.2
70°	4135.4	3301.9	475.5	222.6	210.4	269.1	368.2	348.0	293.4	275.2	267.1
72.5°	3467.8	2816.3	317.6	206.4	198.3	265.0	382.4	348.0	287.3	261.0	252.9
75°	2407.6	1924.1	236.7	186.1	180.1	259.0	386.4	341.9	273.1	244.8	238.7
76°	1932.2	1442.5	214.5	178.0	172.0	254.9	384.4	335.9	263.0	236.7	230.6
77.5°	1220.0	829.5	180.1	163.9	159.8	246.8	376.3	321.7	248.9	222.6	216.5
80°	426.9	303.5	137.6	133.5	135.6	228.6	354.1	293.4	220.5	196.2	188.2
82.5°	169.9	139.6	103.2	103.2	107.2	196.2	319.7	259.0	192.2	161.9	149.7
85°	66.8	60.7	72.8	72.8	76.9	159.8	267.1	202.3	131.5	101.2	97.1
87.5°	20.2	28.3	32.4	34.4	36.4	80.9	151.7	89.0	58.7	42.5	34.4
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)