

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: P595418

Luminaire Tested: **IST-PA1F-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595418
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: IST-PA1F-830-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8942 lumens
Efficiency: N/A
Efficacy: 95.6 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

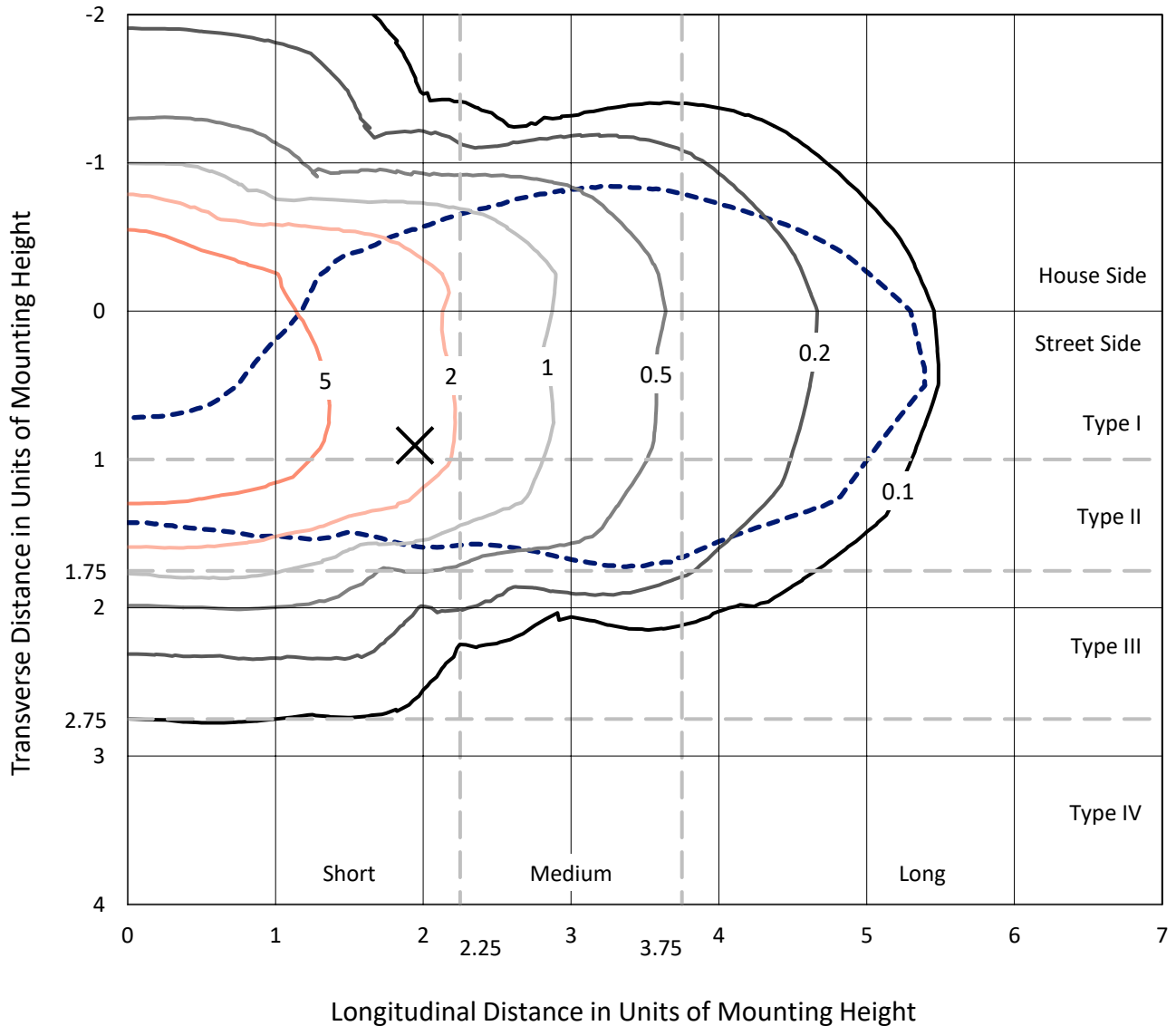
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

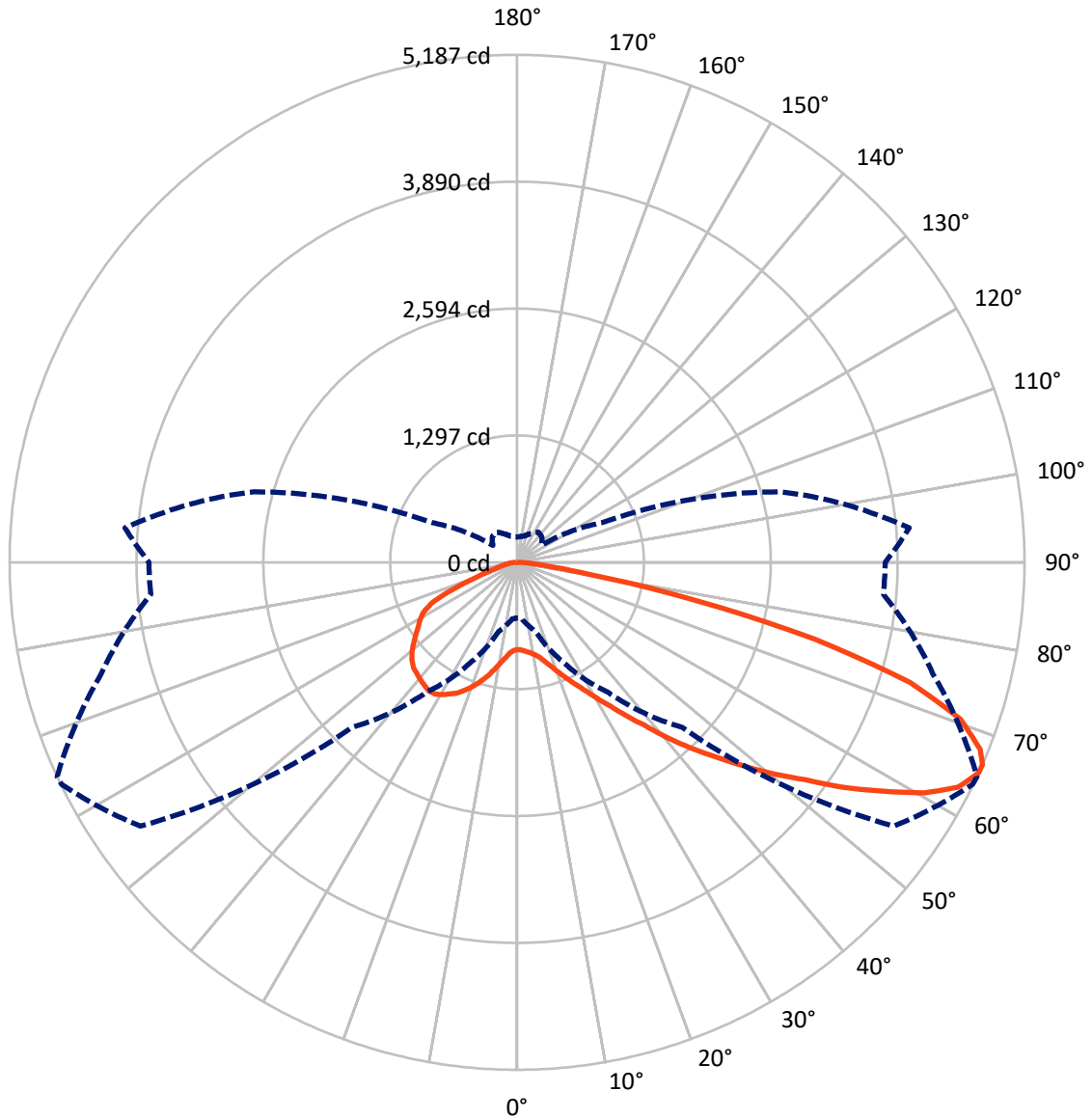
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.9 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	2715.1	0.0	2715.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	6226.8	0.0	6226.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	8942.0	0.0	8942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.0
10°-20°	316.9	3.5
20°-30°	620.7	6.9
30°-40°	1014.2	11.3
40°-50°	1609.8	18.0
50°-60°	2070.4	23.2
60°-70°	1867.1	20.9
70°-80°	1158.0	13.0
80°-90°	194.0	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°	8942.0	100.0
0°-180°	8942.0	100.0

Coefficient of Utilization

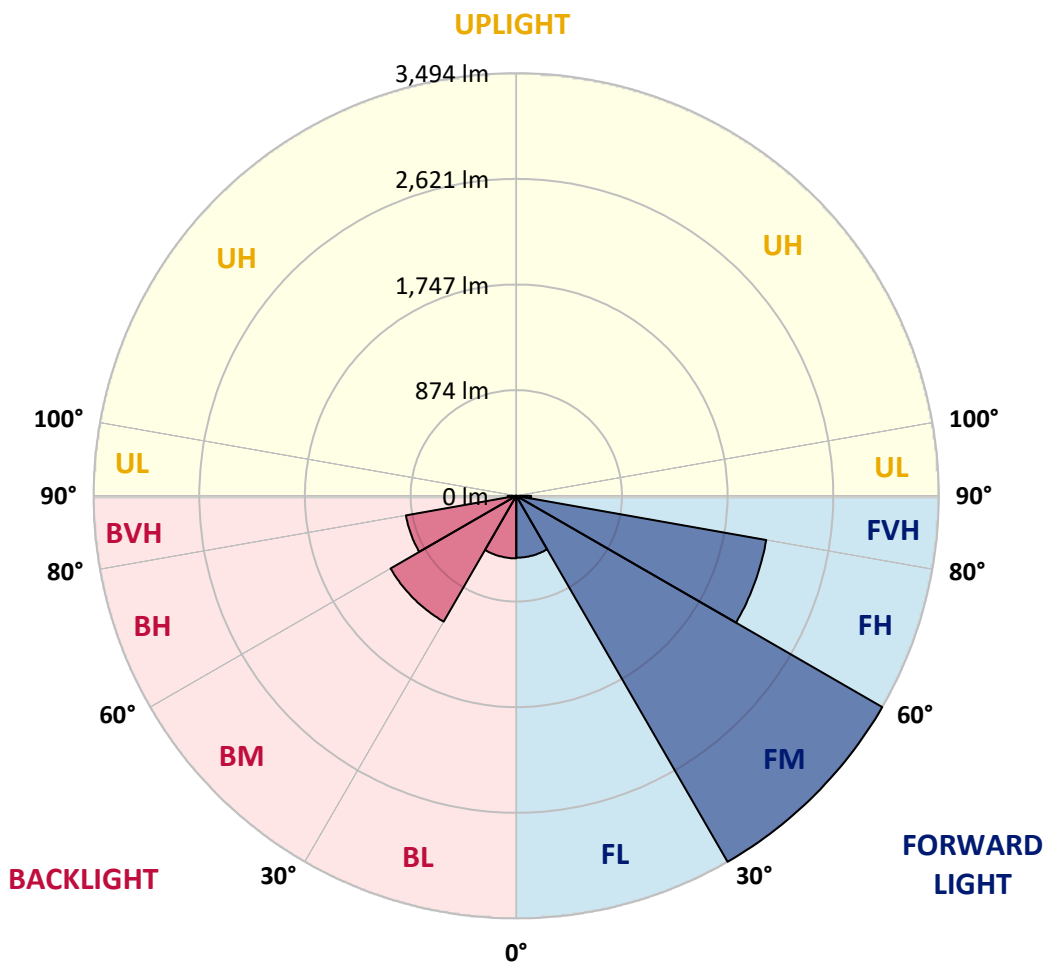


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	511.4	5.7			
FM (30°-60°)	3494.0	39.1			
FH (60°-80°)	2098.7	23.5			G2/5000
FVH (80°-90°)	122.7	1.4			G2/225
BL (0°-30°)	517.1	5.8	B2/1000		
BM (30°-60°)	1200.3	13.4	B2/2500		
BH (60°-80°)	926.4	10.4	B2/1000		G2/1000
BVH (80°-90°)	71.3	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°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	893.5	895.6	897.8	893.5	897.8	900.0	895.6	895.6	897.8	893.5	893.5
5°	887.0	889.1	893.5	895.6	904.3	908.7	910.8	910.8	913.0	910.8	913.0
7.5°	869.6	869.6	878.3	882.6	895.6	910.8	919.5	932.5	932.5	934.7	941.2
10°	887.0	887.0	893.5	900.0	910.8	923.8	936.8	952.0	956.4	971.5	980.2
12.5°	913.0	917.3	926.0	934.7	947.7	962.9	973.7	988.9	991.1	1006.2	1023.6
15°	956.4	960.7	965.0	975.9	993.2	1012.7	1032.3	1043.1	1047.4	1056.1	1069.1
17.5°	1021.4	1025.8	1027.9	1034.4	1047.4	1073.5	1101.7	1110.3	1114.7	1114.7	1125.5
20°	1132.0	1129.9	1125.5	1112.5	1112.5	1136.4	1175.4	1190.6	1194.9	1186.2	1179.7
22.5°	1260.0	1257.8	1240.5	1225.3	1214.4	1218.8	1257.8	1283.8	1281.7	1264.3	1238.3
25°	1427.0	1431.3	1403.1	1364.1	1331.5	1322.9	1346.7	1372.7	1377.1	1344.5	1301.2
27.5°	1626.5	1620.0	1604.8	1541.9	1479.0	1440.0	1453.0	1481.2	1483.3	1448.6	1379.2
30°	1860.7	1849.8	1810.8	1745.7	1648.2	1593.9	1583.1	1607.0	1613.5	1554.9	1455.1
32.5°	2120.9	2110.1	2060.2	1960.4	1854.2	1763.1	1728.4	1760.9	1756.6	1689.4	1550.6
35°	2435.4	2433.2	2342.1	2218.5	2084.0	1962.6	1914.9	1914.9	1927.9	1828.2	1672.0
37.5°	2856.1	2873.4	2739.0	2546.0	2357.3	2194.6	2114.4	2110.1	2112.2	2003.8	1808.6
40°	3235.6	3229.1	3151.0	2971.0	2695.6	2487.4	2368.1	2342.1	2348.6	2209.8	1986.5
42.5°	3454.6	3461.1	3441.6	3363.5	3122.8	2860.4	2656.6	2587.2	2589.3	2415.8	2155.6
45°	3591.2	3597.7	3595.6	3634.6	3539.2	3292.0	3001.4	2840.9	2832.2	2650.1	2355.1
47.5°	3669.3	3673.6	3701.8	3782.1	3860.2	3803.8	3383.1	3122.8	3105.5	2869.1	2554.6
50°	3582.6	3584.7	3697.5	3888.3	4079.2	4250.5	3773.4	3402.6	3398.2	3112.0	2749.8
52.5°	3127.2	3166.2	3415.6	3814.6	4241.8	4567.1	4224.5	3732.2	3695.3	3341.8	2945.0
55°	2552.5	2569.8	2856.1	3363.5	4211.5	4762.3	4565.0	4087.9	4061.8	3597.7	3135.8
57.5°	1993.0	2010.3	2350.8	2773.7	3747.4	4751.5	4805.7	4471.7	4413.2	3821.1	3326.7
60°	1286.0	1340.2	1734.9	2255.4	3033.9	4421.8	4927.1	4840.4	4786.2	4042.3	3489.3
62.5°	874.0	882.6	1129.9	1672.0	2270.5	3593.4	4918.4	5068.1	5059.4	4263.5	3652.0
65°	568.2	581.2	730.8	1132.0	1624.3	2385.5	4701.6	5178.7	5187.3	4400.1	3758.2
66°	481.4	490.1	605.0	952.0	1422.6	1891.0	4510.7	5170.0	5187.3	4463.0	3790.8
67.5°	418.5	425.1	483.6	702.6	1162.4	1359.7	4014.1	5055.1	5104.9	4521.6	3832.0
70°	360.0	368.7	422.9	479.3	830.6	793.7	2541.6	4760.1	4810.0	4549.8	3858.0
72.5°	297.1	303.6	357.8	433.7	602.9	533.5	1121.2	4074.8	4200.6	4445.7	3816.8
75°	234.2	238.5	288.4	362.2	461.9	416.4	487.9	2988.4	3146.7	3918.7	3656.3
77.5°	182.2	184.3	223.4	281.9	422.9	323.1	301.4	1455.1	1841.2	3027.4	3220.4
80°	125.8	130.1	164.8	212.5	310.1	255.9	201.7	568.2	722.2	2010.3	2441.9
82.5°	82.4	84.6	112.8	160.5	206.0	245.1	132.3	275.4	303.6	926.0	1058.3
85°	56.4	56.4	80.2	99.8	141.0	162.6	86.7	145.3	158.3	351.3	127.9
87.5°	28.2	28.2	39.0	52.0	67.2	62.9	52.0	52.0	52.0	114.9	36.9
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°	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3	891.3
2.5°	895.6	895.6	897.8	900.0	902.1	902.1	904.3	904.3	902.1	904.3	906.5
5°	915.2	917.3	921.7	928.2	939.0	949.9	960.7	967.2	973.7	975.9	971.5
7.5°	945.5	949.9	965.0	982.4	999.7	1025.8	1040.9	1049.6	1054.0	1058.3	1054.0
10°	984.6	993.2	1014.9	1045.3	1075.6	1108.2	1125.5	1138.5	1140.7	1145.0	1140.7
12.5°	1030.1	1045.3	1077.8	1121.2	1158.0	1190.6	1203.6	1194.9	1175.4	1166.7	1164.6
15°	1084.3	1099.5	1145.0	1199.2	1242.6	1257.8	1238.3	1210.1	1188.4	1186.2	1184.1
17.5°	1132.0	1153.7	1216.6	1273.0	1314.2	1299.0	1247.0	1229.6	1223.1	1231.8	1229.6
20°	1192.7	1210.1	1273.0	1342.4	1364.1	1305.5	1268.6	1257.8	1251.3	1251.3	1247.0
22.5°	1242.6	1255.6	1331.5	1407.4	1394.4	1309.8	1283.8	1262.1	1240.5	1238.3	1231.8
25°	1301.2	1305.5	1385.8	1468.2	1398.8	1314.2	1268.6	1231.8	1210.1	1203.6	1205.8
27.5°	1355.4	1366.2	1435.6	1509.4	1387.9	1290.3	1216.6	1168.9	1136.4	1134.2	1134.2
30°	1424.8	1424.8	1487.7	1554.9	1364.1	1229.6	1132.0	1062.6	1036.6	1034.4	1030.1
32.5°	1502.9	1489.8	1550.6	1587.4	1312.0	1147.2	1017.1	939.0	897.8	889.1	882.6
35°	1611.3	1583.1	1626.5	1593.9	1260.0	1030.1	871.8	782.9	752.5	739.5	739.5
37.5°	1737.1	1695.9	1741.4	1574.4	1179.7	893.5	720.0	652.8	620.2	600.7	607.2
40°	1884.5	1832.5	1858.5	1552.7	1093.0	741.7	594.2	553.0	514.0	487.9	487.9
42.5°	2058.0	1971.3	1990.8	1531.0	969.4	609.4	514.0	485.8	455.4	429.4	435.9
45°	2225.0	2140.4	2120.9	1509.4	839.3	520.5	481.4	461.9	433.7	403.4	403.4
47.5°	2418.0	2309.6	2235.9	1470.3	711.3	492.3	490.1	461.9	407.7	364.3	360.0
50°	2600.2	2500.4	2339.9	1411.8	639.7	516.1	487.9	420.7	368.7	340.5	338.3
52.5°	2793.2	2689.1	2424.5	1340.2	602.9	505.3	448.9	386.0	347.0	318.8	312.3
55°	2984.0	2929.8	2500.4	1270.8	544.3	470.6	416.4	364.3	323.1	297.1	292.8
57.5°	3200.9	3179.2	2565.5	1201.4	453.2	427.2	392.5	349.1	310.1	290.6	288.4
60°	3389.6	3465.5	2643.6	1149.4	386.0	394.7	381.7	347.0	318.8	297.1	297.1
62.5°	3589.1	3740.9	2712.9	1082.1	336.1	375.2	383.8	344.8	307.9	288.4	288.4
65°	3762.6	4022.8	2784.5	958.5	301.4	360.0	377.3	321.0	277.6	262.4	258.1
66°	3836.3	4103.0	2806.2	882.6	288.4	349.1	366.5	307.9	264.6	251.6	249.4
67.5°	3923.0	4228.8	2832.2	720.0	268.9	325.3	342.6	288.4	242.9	234.2	229.9
70°	4044.5	4254.8	2817.0	470.6	234.2	279.8	305.8	258.1	216.9	210.4	203.9
72.5°	4057.5	4077.0	2665.2	297.1	203.9	240.7	268.9	232.0	190.8	184.3	180.0
75°	3842.8	3612.9	2255.4	212.5	180.0	212.5	236.4	201.7	158.3	149.6	145.3
77.5°	3281.1	2866.9	1622.1	158.3	156.1	182.2	197.3	175.7	132.3	125.8	123.6
80°	2303.1	1945.3	813.2	119.3	123.6	151.8	164.8	147.5	110.6	101.9	97.6
82.5°	932.5	826.2	279.8	88.9	93.3	114.9	141.0	121.4	84.6	73.7	65.1
85°	106.3	180.0	121.4	60.7	62.9	78.1	95.4	73.7	49.9	41.2	34.7
87.5°	21.7	39.0	43.4	23.9	21.7	30.4	43.4	26.0	17.3	6.5	8.7
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)