

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: P595283

Luminaire Tested: **IST-PA1E-730-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595283
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-PA1E-730-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9337 lumens
Efficiency: N/A
Efficacy: 114.6 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

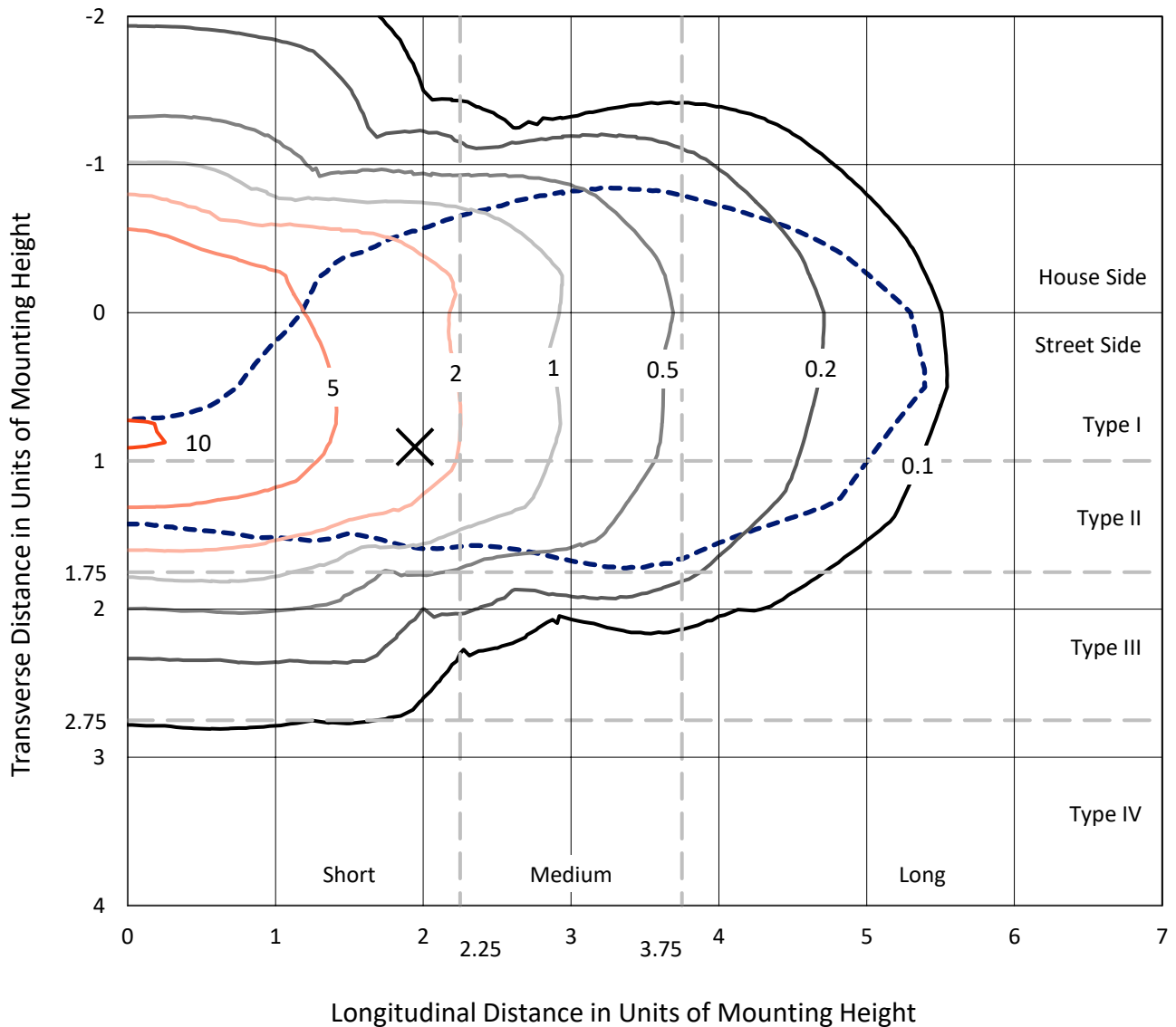
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: IST-PA1E-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

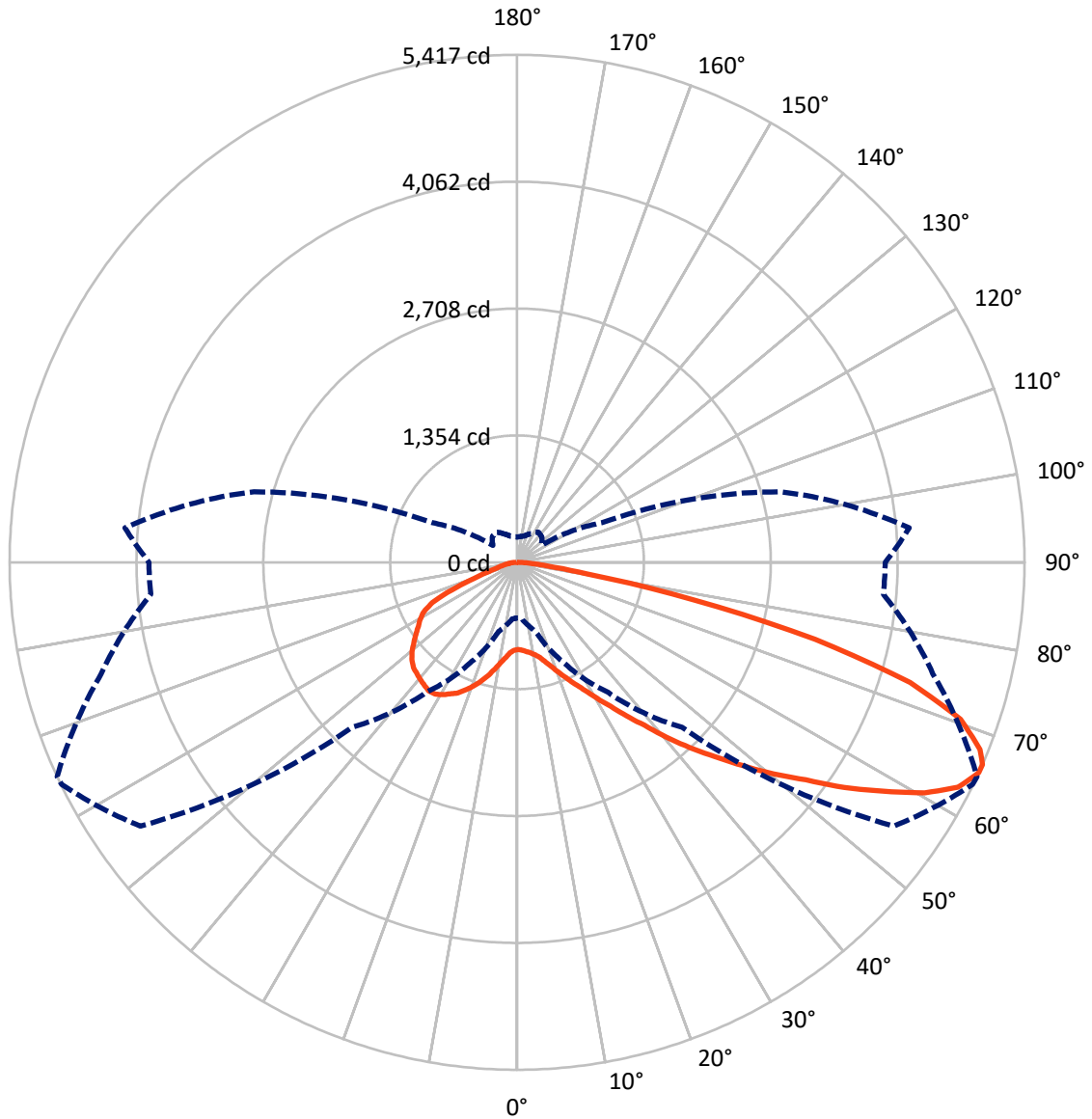
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.3 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	2835.1	0.0	2835.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	6501.9	0.0	6501.9
	% Fixture	69.6	0.0	69.6
Total	Lumens	9337.0	0.0	9337.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	1.0
10°-20°	330.9	3.5
20°-30°	648.1	6.9
30°-40°	1059.0	11.3
40°-50°	1680.9	18.0
50°-60°	2161.9	23.2
60°-70°	1949.6	20.9
70°-80°	1209.2	13.0
80°-90°	202.6	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°	9337.0	100.0
0°-180°	9337.0	100.0

Coefficient of Utilization



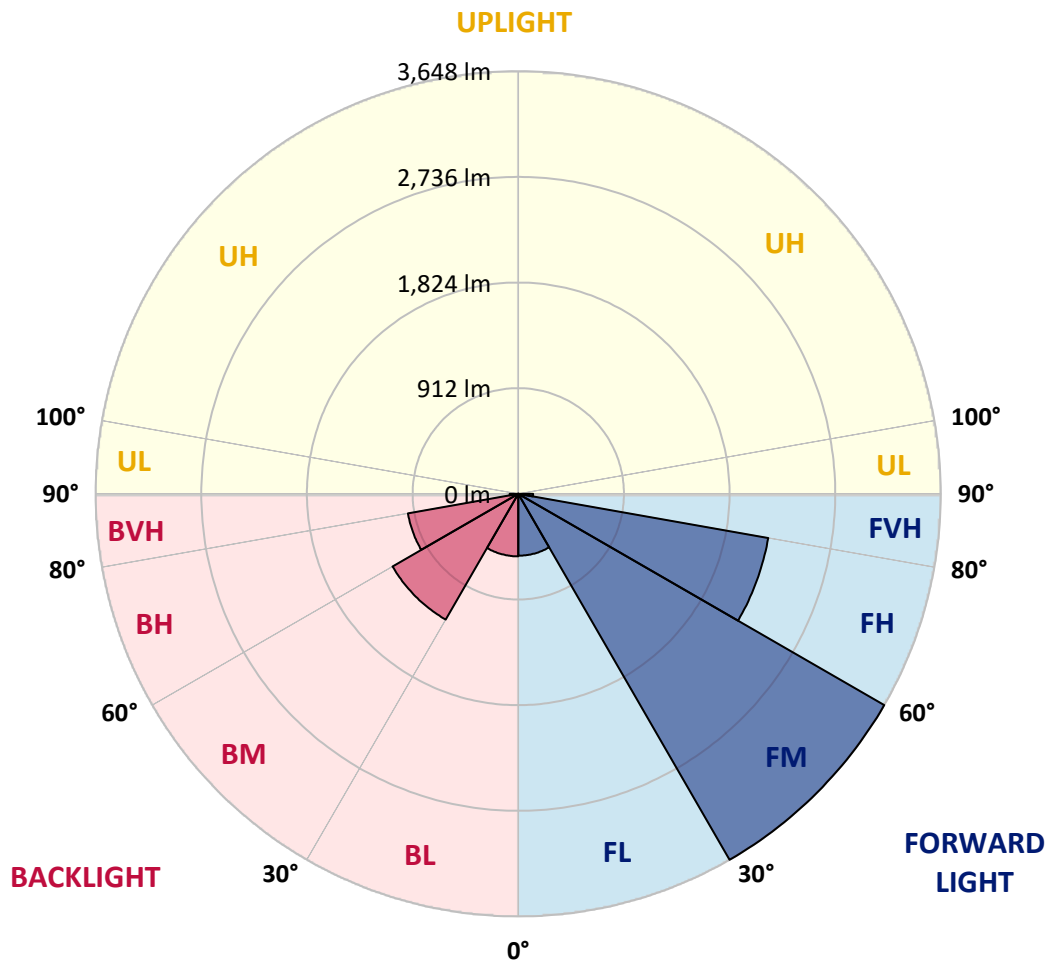
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.0	5.7			
FM (30°-60°)	3648.4	39.1			
FH (60°-80°)	2191.4	23.5			G2/5000
FVH (80°-90°)	128.2	1.4			G2/225
BL (0°-30°)	540.0	5.8	B2/1000		
BM (30°-60°)	1253.3	13.4	B2/2500		
BH (60°-80°)	967.3	10.4	B2/1000		G2/1000
BVH (80°-90°)	74.4	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





REPORT NUMBER: P595283

CATALOG NUMBER: IST-PA1E-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7
2.5°	932.9	935.2	937.5	932.9	937.5	939.7	935.2	935.2	937.5	932.9	932.9
5°	926.1	928.4	932.9	935.2	944.3	948.8	951.1	951.1	953.3	951.1	953.3
7.5°	908.0	908.0	917.1	921.6	935.2	951.1	960.1	973.7	973.7	976.0	982.8
10°	926.1	926.1	932.9	939.7	951.1	964.6	978.2	994.1	998.6	1014.5	1023.5
12.5°	953.3	957.8	966.9	976.0	989.6	1005.4	1016.7	1032.6	1034.8	1050.7	1068.8
15°	998.6	1003.1	1007.7	1019.0	1037.1	1057.5	1077.9	1089.2	1093.7	1102.8	1116.4
17.5°	1066.5	1071.1	1073.3	1080.1	1093.7	1120.9	1150.3	1159.4	1163.9	1163.9	1175.2
20°	1182.0	1179.8	1175.2	1161.6	1161.6	1186.6	1227.3	1243.2	1247.7	1238.6	1231.8
22.5°	1315.6	1313.4	1295.2	1279.4	1268.1	1272.6	1313.4	1340.5	1338.3	1320.2	1293.0
25°	1490.0	1494.5	1465.1	1424.3	1390.4	1381.3	1406.2	1433.4	1437.9	1403.9	1358.7
27.5°	1698.3	1691.5	1675.7	1610.0	1544.3	1503.6	1517.2	1546.6	1548.9	1512.6	1440.2
30°	1942.9	1931.6	1890.8	1822.9	1721.0	1664.3	1653.0	1677.9	1684.7	1623.6	1519.4
32.5°	2214.6	2203.3	2151.2	2047.0	1936.1	1841.0	1804.7	1838.7	1834.2	1764.0	1619.1
35°	2542.9	2540.7	2445.6	2316.5	2176.1	2049.3	1999.5	1999.5	2013.1	1908.9	1745.9
37.5°	2982.2	3000.4	2860.0	2658.4	2461.4	2291.6	2207.8	2203.3	2205.5	2092.3	1888.5
40°	3378.5	3371.7	3290.2	3102.3	2814.7	2597.3	2472.7	2445.6	2452.4	2307.4	2074.2
42.5°	3607.2	3614.0	3593.6	3512.1	3260.8	2986.8	2773.9	2701.5	2703.7	2522.6	2250.8
45°	3749.9	3756.7	3754.4	3795.2	3695.5	3437.4	3134.0	2966.4	2957.3	2767.1	2459.2
47.5°	3831.4	3835.9	3865.4	3949.1	4030.7	3971.8	3532.5	3260.8	3242.6	2995.8	2667.5
50°	3740.8	3743.1	3860.8	4060.1	4259.4	4438.3	3940.1	3552.9	3548.3	3249.4	2871.3
52.5°	3265.3	3306.1	3566.5	3983.1	4429.2	4768.9	4411.1	3897.1	3858.6	3489.5	3075.1
55°	2665.2	2683.3	2982.2	3512.1	4397.5	4972.7	4766.6	4268.4	4241.3	3756.7	3274.4
57.5°	2081.0	2099.1	2454.6	2896.2	3912.9	4961.3	5018.0	4669.2	4608.1	3989.9	3473.6
60°	1342.8	1399.4	1811.5	2355.0	3167.9	4617.2	5144.8	5054.2	4997.6	4220.9	3643.5
62.5°	912.6	921.6	1179.8	1745.9	2370.8	3752.1	5135.7	5291.9	5282.9	4451.8	3813.3
65°	593.3	606.9	763.1	1182.0	1696.1	2490.9	4909.3	5407.4	5416.5	4594.5	3924.2
66°	502.7	511.8	631.8	994.1	1485.5	1974.6	4710.0	5398.4	5416.5	4660.2	3958.2
67.5°	437.0	443.8	505.0	733.7	1213.7	1419.8	4191.4	5278.4	5330.4	4721.3	4001.2
70°	375.9	385.0	441.6	500.4	867.3	828.8	2653.9	4970.4	5022.5	4750.8	4028.4
72.5°	310.2	317.0	373.6	452.9	629.5	557.0	1170.7	4254.8	4386.2	4642.1	3985.4
75°	244.6	249.1	301.2	378.2	482.3	434.8	509.5	3120.4	3285.7	4091.8	3817.8
77.5°	190.2	192.5	233.2	294.4	441.6	337.4	314.8	1519.4	1922.5	3161.1	3362.7
80°	131.3	135.9	172.1	221.9	323.8	267.2	210.6	593.3	754.1	2099.1	2549.7
82.5°	86.0	88.3	117.7	167.6	215.1	255.9	138.1	287.6	317.0	966.9	1105.0
85°	58.9	58.9	83.8	104.2	147.2	169.8	90.6	151.7	165.3	366.8	133.6
87.5°	29.4	29.4	40.8	54.3	70.2	65.7	54.3	54.3	54.3	120.0	38.5
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°	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7	930.7
2.5°	935.2	935.2	937.5	939.7	942.0	942.0	944.3	944.3	942.0	944.3	946.5
5°	955.6	957.8	962.4	969.2	980.5	991.8	1003.1	1009.9	1016.7	1019.0	1014.5
7.5°	987.3	991.8	1007.7	1025.8	1043.9	1071.1	1086.9	1096.0	1100.5	1105.0	1100.5
10°	1028.0	1037.1	1059.7	1091.5	1123.2	1157.1	1175.2	1188.8	1191.1	1195.6	1191.1
12.5°	1075.6	1091.5	1125.4	1170.7	1209.2	1243.2	1256.8	1247.7	1227.3	1218.3	1216.0
15°	1132.2	1148.1	1195.6	1252.2	1297.5	1313.4	1293.0	1263.5	1240.9	1238.6	1236.4
17.5°	1182.0	1204.7	1270.3	1329.2	1372.2	1356.4	1302.0	1283.9	1277.1	1286.2	1283.9
20°	1245.4	1263.5	1329.2	1401.7	1424.3	1363.2	1324.7	1313.4	1306.6	1306.6	1302.0
22.5°	1297.5	1311.1	1390.4	1469.6	1456.0	1367.7	1340.5	1317.9	1295.2	1293.0	1286.2
25°	1358.7	1363.2	1447.0	1533.0	1460.6	1372.2	1324.7	1286.2	1263.5	1256.8	1259.0
27.5°	1415.3	1426.6	1499.0	1576.0	1449.2	1347.3	1270.3	1220.5	1186.6	1184.3	1184.3
30°	1487.7	1487.7	1553.4	1623.6	1424.3	1283.9	1182.0	1109.6	1082.4	1080.1	1075.6
32.5°	1569.2	1555.7	1619.1	1657.6	1370.0	1197.9	1062.0	980.5	937.5	928.4	921.6
35°	1682.5	1653.0	1698.3	1664.3	1315.6	1075.6	910.3	817.5	785.8	772.2	772.2
37.5°	1813.8	1770.8	1818.3	1644.0	1231.8	932.9	751.8	681.6	647.6	627.2	634.0
40°	1967.8	1913.4	1940.6	1621.3	1141.3	774.4	620.5	577.4	536.7	509.5	509.5
42.5°	2148.9	2058.4	2078.7	1598.7	1012.2	636.3	536.7	507.2	475.5	448.4	455.1
45°	2323.3	2235.0	2214.6	1576.0	876.3	543.5	502.7	482.3	452.9	421.2	421.2
47.5°	2524.8	2411.6	2334.6	1535.3	742.7	514.0	511.8	482.3	425.7	380.4	375.9
50°	2715.0	2610.9	2443.3	1474.1	668.0	538.9	509.5	439.3	385.0	355.5	353.2
52.5°	2916.6	2807.9	2531.6	1399.4	629.5	527.6	468.7	403.1	362.3	332.9	326.1
55°	3115.8	3059.2	2610.9	1327.0	568.4	491.4	434.8	380.4	337.4	310.2	305.7
57.5°	3342.3	3319.6	2678.8	1254.5	473.3	446.1	409.9	364.6	323.8	303.4	301.2
60°	3539.3	3618.5	2760.3	1200.1	403.1	412.1	398.5	362.3	332.9	310.2	310.2
62.5°	3747.6	3906.1	2832.8	1129.9	351.0	391.7	400.8	360.0	321.5	301.2	301.2
65°	3928.8	4200.5	2907.5	1000.9	314.8	375.9	394.0	335.1	289.8	274.0	269.5
66°	4005.8	4284.3	2930.2	921.6	301.2	364.6	382.7	321.5	276.3	262.7	260.4
67.5°	4096.3	4415.6	2957.3	751.8	280.8	339.7	357.8	301.2	253.6	244.6	240.0
70°	4223.1	4442.8	2941.5	491.4	244.6	292.1	319.3	269.5	226.4	219.6	212.9
72.5°	4236.7	4257.1	2783.0	310.2	212.9	251.4	280.8	242.3	199.3	192.5	187.9
75°	4012.6	3772.5	2355.0	221.9	187.9	221.9	246.8	210.6	165.3	156.2	151.7
77.5°	3426.1	2993.6	1693.8	165.3	163.0	190.2	206.1	183.4	138.1	131.3	129.1
80°	2404.8	2031.2	849.2	124.5	129.1	158.5	172.1	154.0	115.5	106.4	101.9
82.5°	973.7	862.7	292.1	92.8	97.4	120.0	147.2	126.8	88.3	77.0	67.9
85°	111.0	187.9	126.8	63.4	65.7	81.5	99.6	77.0	52.1	43.0	36.2
87.5°	22.6	40.8	45.3	24.9	22.6	31.7	45.3	27.2	18.1	6.8	9.1
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)