

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: INVUE

Report Number: P675064

Luminaire Tested: **CCW-SA-2D-850-U-T3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675064
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-T3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T3 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

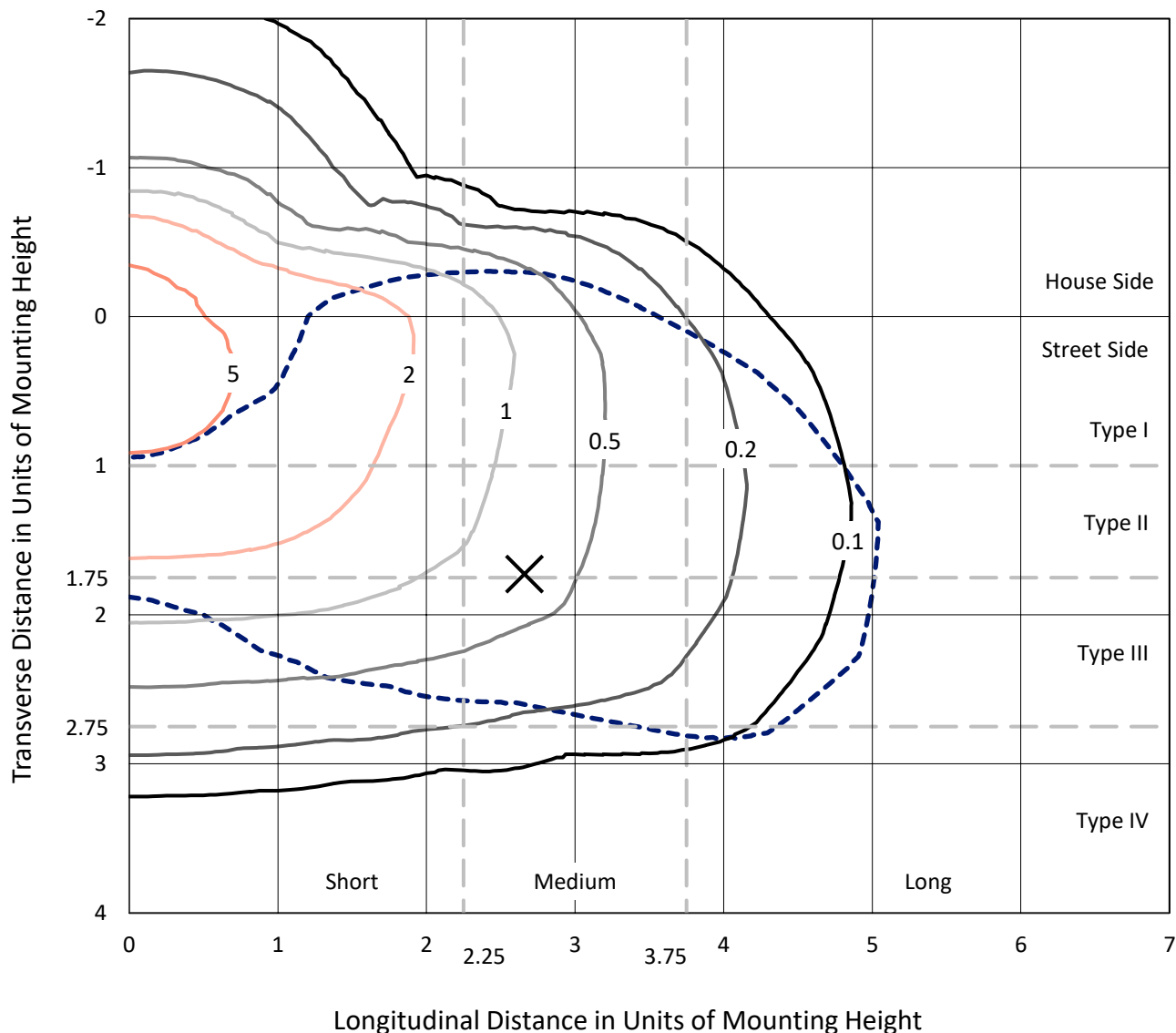
Lumens per Lamp: N/A
Luminaire Lumens: 9833 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
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: 25 FT

REPORT NUMBER: P675064
 CATALOG NUMBER: CCW-SA-2D-850-U-T3

Iso-Footcandle Lines of Horizontal Illumination

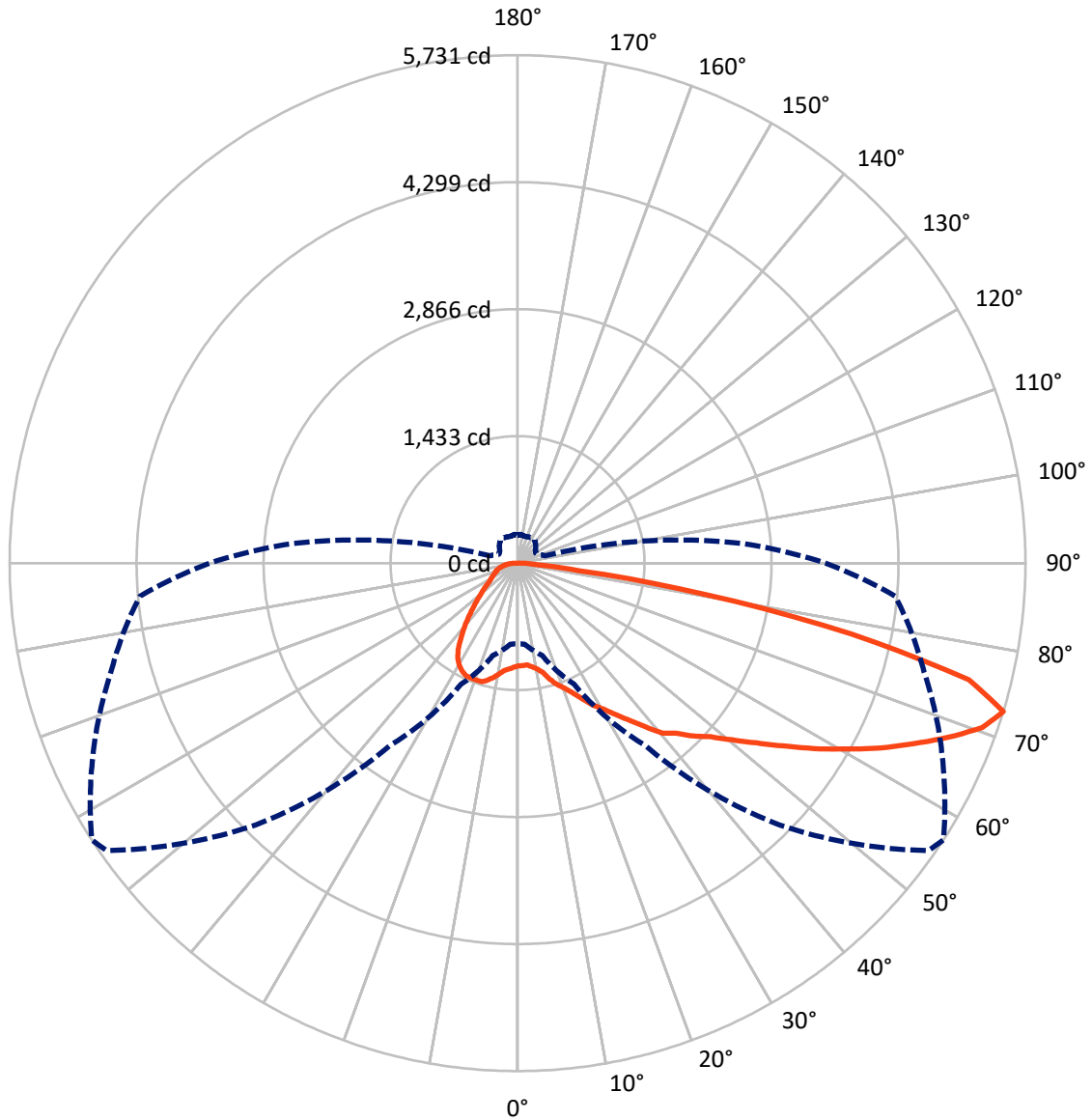
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P675064
CATALOG NUMBER: CCW-SA-2D-850-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P675064
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2296.3	0.0	2296.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	7536.6	0.0	7536.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	9833.0	0.0	9833.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.2
10°-20°	388.3	3.9
20°-30°	709.8	7.2
30°-40°	1041.3	10.6
40°-50°	1433.7	14.6
50°-60°	1966.1	20.0
60°-70°	2370.0	24.1
70°-80°	1578.7	16.1
80°-90°	230.0	2.3
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°	9833.0	100.0
0°-180°	9833.0	100.0



REPORT NUMBER: P675064

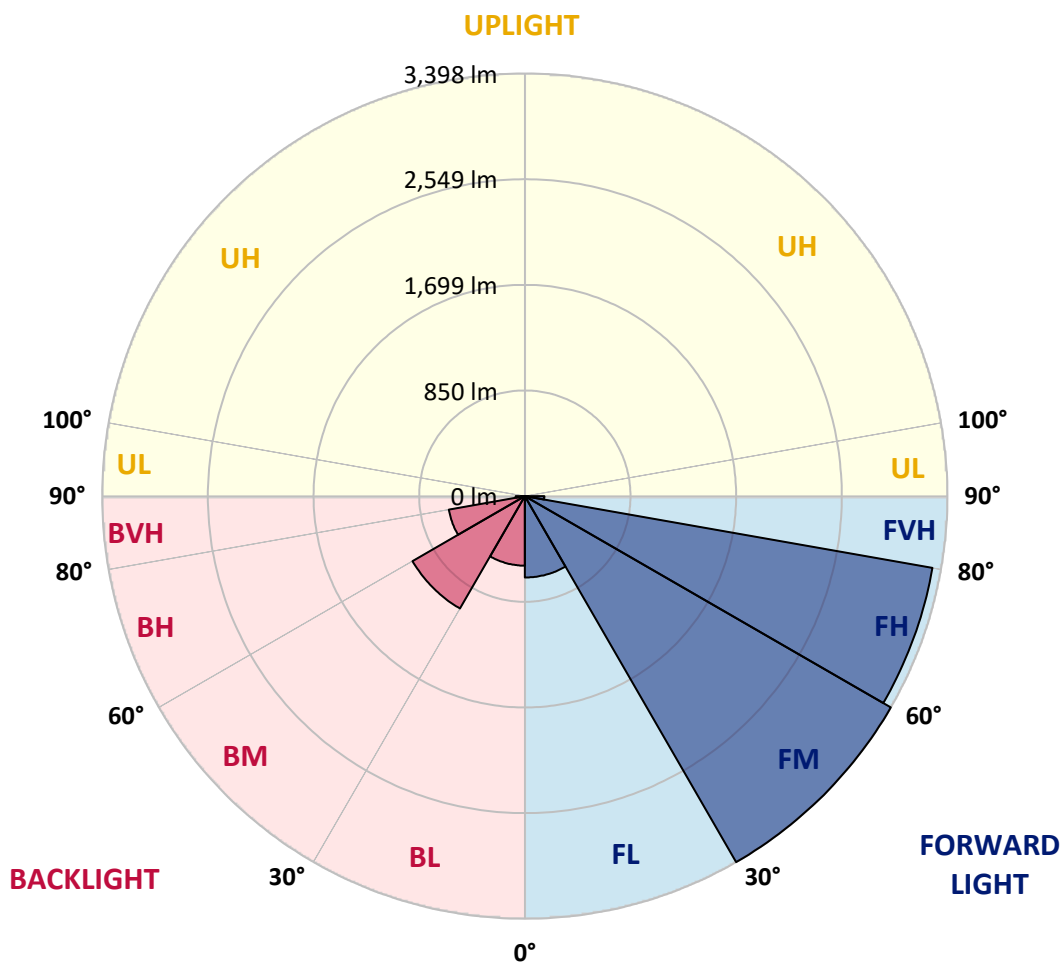
CATALOG NUMBER: CCW-SA-2D-850-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.1	6.7			
FM (30°-60°)	3398.1	34.6			
FH (60°-80°)	3327.8	33.8			G2/5000
FVH (80°-90°)	156.6	1.6			G2/225
BL (0°-30°)	559.1	5.7	B2/1000		
BM (30°-60°)	1043.0	10.6	B2/2500		
BH (60°-80°)	620.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	73.4	0.7			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 III Medium





REPORT NUMBER: P675064

CATALOG NUMBER: CCW-SA-2D-850-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6
2.5°	1139.1	1142.7	1149.9	1146.3	1146.3	1135.5	1153.4	1157.0	1149.9	1153.4	1160.6
5°	1139.1	1146.3	1157.0	1149.9	1153.4	1149.9	1142.7	1153.4	1153.4	1157.0	1167.8
7.5°	1200.0	1196.4	1196.4	1185.7	1182.1	1178.5	1182.1	1182.1	1174.9	1178.5	1178.5
10°	1268.1	1268.1	1260.9	1260.9	1253.7	1235.8	1217.9	1214.3	1203.6	1207.2	1207.2
12.5°	1339.7	1346.9	1354.0	1332.5	1325.4	1296.7	1286.0	1264.5	1264.5	1257.3	1253.7
15°	1429.3	1418.5	1425.7	1418.5	1400.6	1371.9	1354.0	1357.6	1332.5	1325.4	1314.6
17.5°	1508.1	1511.7	1500.9	1493.7	1461.5	1440.0	1443.6	1440.0	1407.8	1397.0	1379.1
20°	1601.2	1597.6	1597.6	1576.1	1547.5	1518.8	1508.1	1504.5	1511.7	1490.2	1447.2
22.5°	1697.9	1683.6	1683.6	1665.7	1626.3	1608.4	1601.2	1586.9	1594.0	1576.1	1511.7
25°	1776.7	1776.7	1801.8	1766.0	1744.5	1708.7	1694.3	1697.9	1701.5	1665.7	1590.5
27.5°	1880.6	1862.7	1887.8	1869.9	1859.1	1819.7	1801.8	1812.5	1805.4	1766.0	1662.1
30°	2013.1	2016.7	2002.4	1977.3	1963.0	1934.3	1923.6	1912.8	1923.6	1873.4	1740.9
32.5°	2177.9	2188.7	2152.9	2124.2	2099.1	2070.5	2049.0	2038.2	2049.0	1973.7	1801.8
35°	2367.8	2378.5	2349.9	2317.6	2289.0	2217.3	2199.4	2181.5	2142.1	2020.3	1859.1
37.5°	2543.3	2529.0	2521.8	2521.8	2468.1	2364.2	2353.4	2342.7	2267.5	2113.4	1937.9
40°	2661.5	2679.4	2672.3	2665.1	2657.9	2561.2	2539.7	2521.8	2396.4	2253.1	2049.0
42.5°	2794.0	2783.3	2812.0	2822.7	2797.6	2769.0	2683.0	2622.1	2511.1	2396.4	2213.7
45°	2951.7	2944.5	2955.2	2994.6	2958.8	2969.6	2826.3	2783.3	2643.6	2575.5	2421.5
47.5°	3091.4	3109.3	3163.0	3173.8	3145.1	3195.2	2994.6	2926.6	2837.0	2783.3	2636.4
50°	3152.3	3173.8	3295.5	3370.8	3374.4	3453.2	3163.0	3134.4	3012.6	3034.1	2905.1
52.5°	3102.1	3170.2	3317.0	3514.1	3635.8	3714.7	3385.1	3370.8	3259.7	3327.8	3198.8
55°	3148.7	3213.2	3309.9	3585.7	3893.8	3911.7	3693.2	3639.4	3528.4	3621.5	3503.3
57.5°	3170.2	3134.4	3317.0	3664.5	4083.6	4130.2	3986.9	3947.5	3861.5	3951.1	3883.0
60°	3001.8	3044.8	3216.7	3643.0	4094.4	4363.0	4316.4	4259.1	4180.3	4262.7	4223.3
62.5°	2812.0	2840.6	3026.9	3514.1	4155.3	4531.4	4635.3	4592.3	4481.2	4552.9	4620.9
65°	2572.0	2575.5	2783.3	3284.8	4037.0	4628.1	4914.7	4911.1	4832.3	4814.4	4921.8
67.5°	2278.2	2306.9	2471.7	3041.2	3875.8	4735.6	5190.5	5244.2	5086.6	4946.9	4986.3
70°	1748.1	1776.7	1934.3	2493.2	3546.3	4703.3	5530.8	5559.4	5251.4	4896.8	4796.5
72.5°	909.9	917.0	1078.2	1504.5	2514.6	4176.7	5656.2	5731.4	5294.4	4749.9	4277.0
75°	300.9	300.9	369.0	573.1	1185.7	2672.3	5122.4	5258.5	5083.0	4384.5	3499.7
77.5°	179.1	182.7	218.5	286.6	472.8	1067.5	3610.8	3850.8	4158.8	3729.0	2557.6
80°	129.0	132.5	164.8	197.0	283.0	343.9	1812.5	2145.7	2554.0	2400.0	1364.8
82.5°	96.7	96.7	129.0	146.9	193.4	204.2	505.1	691.3	1103.3	859.7	376.1
85°	100.3	100.3	100.3	103.9	132.5	118.2	211.3	225.7	322.4	283.0	103.9
87.5°	35.8	39.4	100.3	68.1	68.1	50.1	82.4	89.6	114.6	118.2	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675064

CATALOG NUMBER: CCW-SA-2D-850-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6	1160.6
2.5°	1164.2	1164.2	1167.8	1167.8	1174.9	1182.1	1192.8	1185.7	1185.7	1189.3	1185.7
5°	1160.6	1164.2	1174.9	1192.8	1200.0	1203.6	1225.1	1225.1	1225.1	1232.2	1232.2
7.5°	1174.9	1182.1	1200.0	1217.9	1221.5	1232.2	1260.9	1268.1	1286.0	1293.1	1296.7
10°	1210.8	1221.5	1235.8	1257.3	1271.7	1286.0	1307.5	1332.5	1329.0	1350.5	1354.0
12.5°	1264.5	1260.9	1286.0	1307.5	1321.8	1343.3	1350.5	1350.5	1350.5	1350.5	1357.6
15°	1307.5	1314.6	1336.1	1350.5	1368.4	1364.8	1350.5	1336.1	1339.7	1336.1	1336.1
17.5°	1371.9	1371.9	1389.9	1393.4	1400.6	1364.8	1343.3	1343.3	1354.0	1354.0	1346.9
20°	1436.4	1432.8	1440.0	1436.4	1389.9	1346.9	1343.3	1346.9	1350.5	1346.9	1343.3
22.5°	1497.3	1490.2	1479.4	1465.1	1382.7	1343.3	1336.1	1318.2	1300.3	1300.3	1289.6
25°	1551.1	1543.9	1515.2	1472.2	1379.1	1321.8	1286.0	1243.0	1221.5	1210.8	1225.1
27.5°	1601.2	1586.9	1547.5	1472.2	1346.9	1264.5	1196.4	1142.7	1124.8	1110.5	1124.8
30°	1669.3	1644.2	1590.5	1461.5	1296.7	1174.9	1081.8	1017.3	999.4	977.9	985.1
32.5°	1730.2	1672.8	1626.3	1429.3	1232.2	1074.6	967.2	902.7	870.5	852.5	866.9
35°	1794.6	1737.3	1640.6	1379.1	1131.9	952.8	845.4	784.5	759.4	734.3	734.3
37.5°	1859.1	1826.9	1662.1	1286.0	1010.2	838.2	741.5	694.9	651.9	605.4	605.4
40°	1995.2	1952.3	1687.2	1178.5	888.4	727.2	659.1	598.2	555.2	490.7	487.2
42.5°	2138.5	2045.4	1687.2	1049.6	780.9	648.4	583.9	519.4	440.6	401.2	404.8
45°	2321.2	2213.7	1640.6	934.9	673.4	583.9	512.2	429.9	394.0	369.0	369.0
47.5°	2550.5	2382.1	1583.3	809.6	587.5	526.6	437.0	386.9	361.8	340.3	336.7
50°	2822.7	2536.1	1511.7	702.1	515.8	472.8	397.6	358.2	336.7	322.4	322.4
52.5°	3109.3	2761.8	1461.5	605.4	458.5	401.2	369.0	343.9	326.0	315.2	311.6
55°	3399.4	2987.5	1425.7	501.5	404.8	369.0	361.8	340.3	333.1	322.4	315.2
57.5°	3725.4	3173.8	1418.5	429.9	361.8	354.6	369.0	351.0	340.3	329.6	318.8
60°	4076.4	3424.5	1354.0	372.5	340.3	347.5	358.2	340.3	333.1	322.4	315.2
62.5°	4423.9	3610.8	1178.5	329.6	318.8	326.0	340.3	326.0	315.2	318.8	322.4
65°	4567.2	3625.1	913.4	297.3	293.7	297.3	318.8	315.2	304.5	326.0	326.0
67.5°	4423.9	3496.1	644.8	268.7	268.7	286.6	322.4	329.6	318.8	347.5	343.9
70°	4097.9	3177.3	437.0	250.7	257.9	304.5	333.1	326.0	311.6	347.5	340.3
72.5°	3478.2	2543.3	318.8	232.8	243.6	290.2	329.6	322.4	311.6	326.0	311.6
75°	2611.4	1809.0	250.7	211.3	214.9	261.5	340.3	322.4	293.7	286.6	275.8
77.5°	1744.5	1117.6	193.4	186.3	186.3	229.3	326.0	300.9	265.1	254.3	250.7
80°	831.1	447.8	154.0	157.6	161.2	197.0	297.3	268.7	240.0	225.7	225.7
82.5°	265.1	168.4	129.0	129.0	129.0	161.2	247.2	225.7	207.8	197.0	179.1
85°	93.1	93.1	111.0	114.6	103.9	118.2	204.2	193.4	171.9	143.3	139.7
87.5°	35.8	53.7	75.2	89.6	64.5	82.4	146.9	136.1	125.4	93.1	89.6
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)