

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: P675640

Luminaire Tested: **CCW-SA-2D-850-U-SL3**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675640
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-SL3
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL3 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

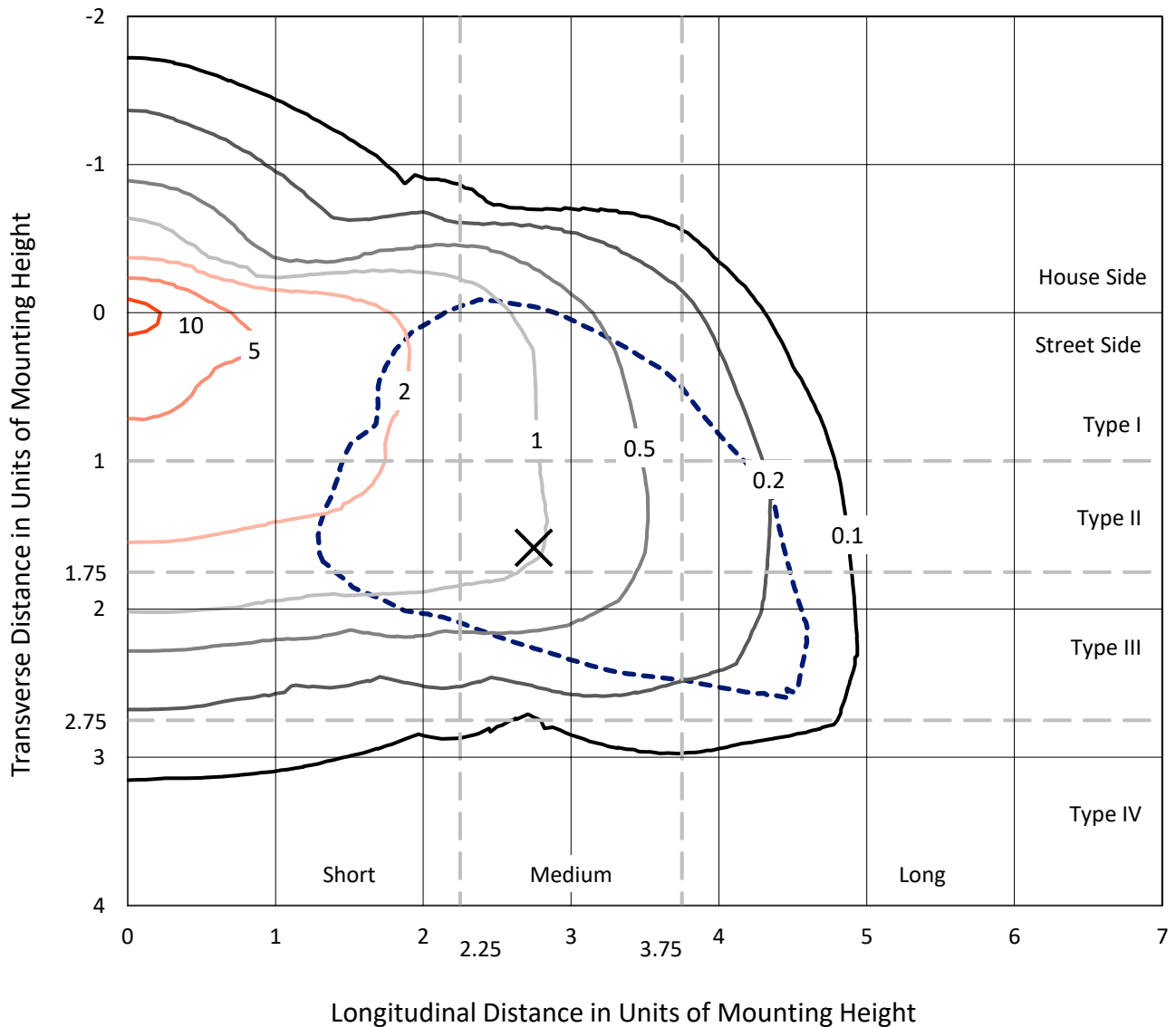
Lumens per Lamp: N/A
Luminaire Lumens: 9622.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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: P675640
 CATALOG NUMBER: CCW-SA-2D-850-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

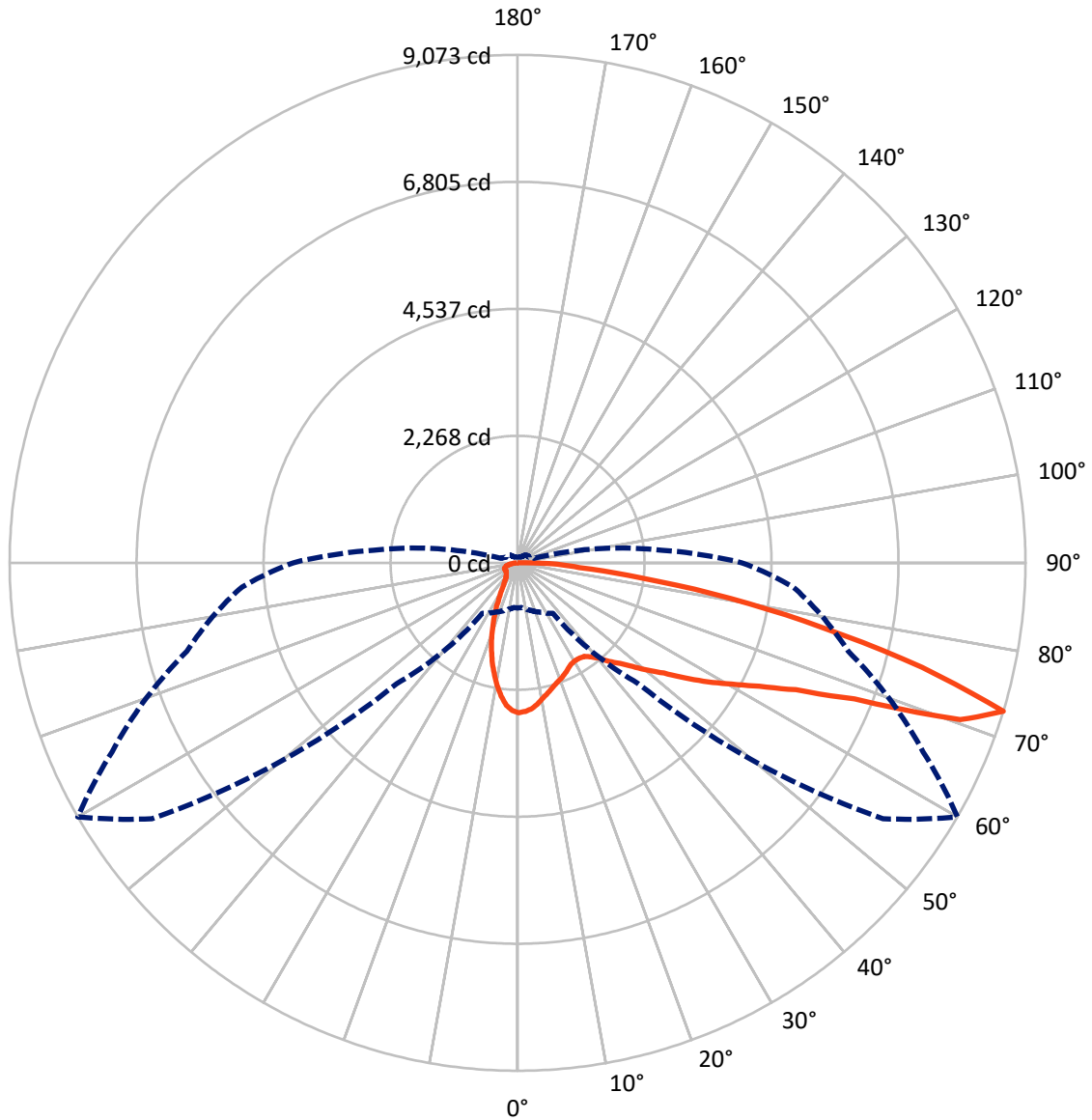
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Medium - N/A

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CATALOG NUMBER: CCW-SA-2D-850-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1653.0	0.0	1653.0
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	7969.4	0.0	7969.4
	% Fixture	82.8	0.0	82.8
Total	Lumens	9622.3	0.0	9622.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	2.4
10°-20°	526.6	5.5
20°-30°	674.0	7.0
30°-40°	862.2	9.0
40°-50°	1182.5	12.3
50°-60°	1710.4	17.8
60°-70°	2346.4	24.4
70°-80°	1760.7	18.3
80°-90°	327.3	3.4
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°	9622.3	100.0
0°-180°	9622.3	100.0

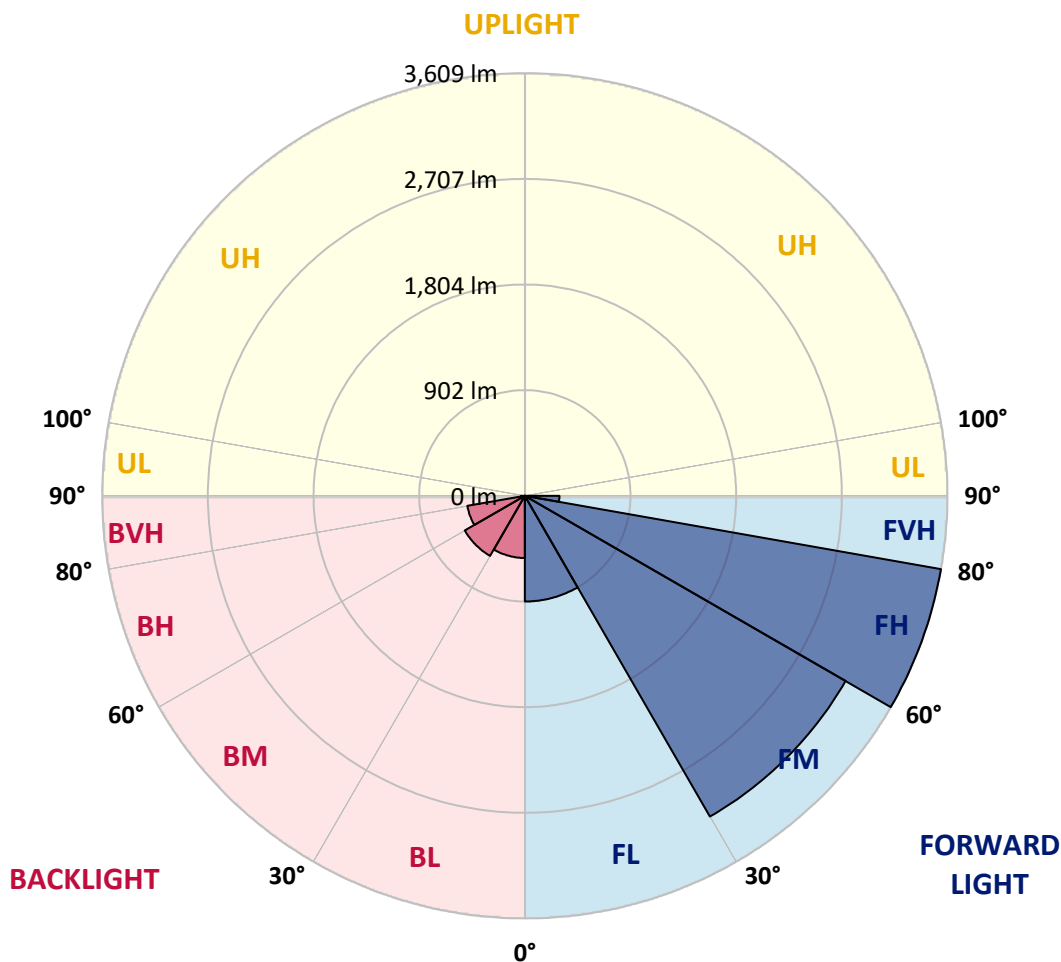


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	902.2	9.4			
FM (30°-60°)	3162.8	32.9			
FH (60°-80°)	3609.0	37.5			G2/5000
FVH (80°-90°)	295.4	3.1			G3/500
BL (0°-30°)	530.6	5.5	B2/1000		
BM (30°-60°)	592.4	6.2	B1/1000		
BH (60°-80°)	498.1	5.2	B1/500		G1/500
BVH (80°-90°)	31.9	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3
2.5°	2622.0	2647.1	2654.3	2654.3	2675.8	2650.7	2686.5	2657.9	2665.0	2675.8	2668.6
5°	2496.7	2539.6	2514.6	2561.1	2543.2	2575.5	2618.4	2618.4	2607.7	2629.2	2611.3
7.5°	2374.9	2360.5	2403.5	2403.5	2432.2	2475.2	2511.0	2546.8	2550.4	2557.6	2554.0
10°	2210.1	2228.0	2249.5	2278.2	2314.0	2357.0	2432.2	2460.8	2468.0	2511.0	2500.2
12.5°	2074.0	2099.1	2113.4	2170.7	2202.9	2263.8	2349.8	2389.2	2392.8	2453.7	2453.7
15°	1973.7	1988.0	2020.3	2041.7	2113.4	2199.4	2281.7	2317.6	2357.0	2421.4	2403.5
17.5°	1905.6	1923.5	1937.9	1966.5	2034.6	2106.2	2235.2	2256.7	2303.2	2396.4	2374.9
20°	1866.2	1869.8	1891.3	1909.2	1970.1	2038.2	2152.8	2210.1	2271.0	2353.4	2331.9
22.5°	1873.4	1859.1	1855.5	1880.6	1891.3	1955.8	2095.5	2156.4	2242.3	2339.1	2303.2
25°	1887.7	1891.3	1884.1	1862.6	1866.2	1923.5	2016.7	2095.5	2192.2	2335.5	2263.8
27.5°	1923.5	1941.4	1912.8	1891.3	1869.8	1891.3	1988.0	2045.3	2152.8	2353.4	2260.2
30°	1959.4	1977.3	1970.1	1937.9	1894.9	1887.7	1955.8	2027.4	2131.3	2367.7	2260.2
32.5°	2013.1	2038.2	2013.1	2023.8	1973.7	1941.4	1966.5	2031.0	2152.8	2417.9	2263.8
35°	2074.0	2095.5	2102.6	2077.6	2066.8	2005.9	2020.3	2052.5	2174.3	2475.2	2299.6
37.5°	2142.0	2167.1	2188.6	2192.2	2156.4	2120.5	2113.4	2131.3	2228.0	2575.5	2339.1
40°	2188.6	2202.9	2245.9	2281.7	2292.5	2242.3	2238.8	2238.8	2324.7	2665.0	2410.7
42.5°	2267.4	2260.2	2321.1	2385.6	2403.5	2374.9	2382.0	2410.7	2460.8	2794.0	2525.3
45°	2306.8	2299.6	2371.3	2478.8	2561.1	2546.8	2554.0	2564.7	2611.3	2998.1	2718.7
47.5°	2360.5	2367.7	2471.6	2593.4	2679.3	2729.5	2768.9	2765.3	2801.1	3205.9	2933.7
50°	2414.3	2428.6	2554.0	2682.9	2833.4	2919.3	2976.6	3016.1	3051.9	3424.4	3180.8
52.5°	2518.2	2532.5	2672.2	2811.9	3005.3	3130.7	3274.0	3270.4	3274.0	3642.9	3428.0
55°	2668.6	2672.2	2754.6	2915.8	3177.2	3406.5	3603.5	3625.0	3564.1	3915.1	3711.0
57.5°	2840.5	2854.9	2926.5	3048.3	3313.4	3671.6	3972.4	4015.4	3850.7	4137.2	3968.9
60°	3001.7	3012.5	3123.5	3263.2	3549.8	4004.7	4345.0	4395.1	4216.0	4409.5	4237.5
62.5°	2819.0	2872.8	3069.8	3388.6	3965.3	4509.7	4817.8	4850.0	4570.6	4685.3	4524.1
65°	2256.7	2292.5	2575.5	3091.3	3993.9	5426.7	5548.5	5462.6	5057.8	5039.9	4957.5
67.5°	1257.3	1285.9	1479.4	2020.3	3363.5	5770.6	7121.0	6490.6	5813.6	5573.6	5545.0
70°	992.2	999.4	1024.5	1135.5	1866.2	5086.5	8360.4	8389.1	7049.4	6307.9	5670.3
72.5°	806.0	802.4	877.6	974.3	1103.3	3051.9	7970.0	9073.2	7995.0	6114.5	4939.6
75°	616.1	626.9	723.6	863.3	1010.1	1436.4	5946.1	7464.9	7490.0	5699.0	4165.9
77.5°	469.2	472.8	580.3	763.0	988.6	1013.7	3879.3	5562.9	5587.9	4413.0	2296.1
80°	351.0	351.0	440.6	644.8	963.6	934.9	2389.2	3857.8	3492.5	1551.0	501.5
82.5°	200.6	214.9	293.7	490.7	874.0	899.1	1346.8	2210.1	1475.8	422.7	232.8
85°	107.5	111.0	179.1	329.5	720.0	859.7	1028.0	1099.7	587.4	225.7	107.5
87.5°	39.4	39.4	82.4	168.4	454.9	637.6	816.7	702.1	336.7	103.9	53.7
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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 CATALOG NUMBER: CCW-SA-2D-850-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3	2679.3
2.5°	2675.8	2661.4	2650.7	2661.4	2622.0	2604.1	2625.6	2614.9	2593.4	2582.6	2575.5
5°	2622.0	2604.1	2586.2	2575.5	2532.5	2489.5	2468.0	2425.0	2389.2	2399.9	2378.5
7.5°	2564.7	2546.8	2493.1	2442.9	2357.0	2271.0	2231.6	2170.7	2149.2	2131.3	2120.5
10°	2493.1	2460.8	2378.5	2278.2	2152.8	2056.1	1955.8	1884.1	1808.9	1776.7	1787.4
12.5°	2403.5	2385.6	2256.7	2102.6	1927.1	1765.9	1647.7	1533.1	1432.8	1379.1	1364.7
15°	2364.1	2310.4	2124.1	1920.0	1697.9	1497.3	1321.8	1121.2	1003.0	945.7	945.7
17.5°	2321.1	2220.8	1998.8	1719.4	1465.0	1207.1	960.0	777.3	684.2	651.9	651.9
20°	2253.1	2142.0	1851.9	1529.5	1221.5	909.8	687.7	587.4	558.8	537.3	540.9
22.5°	2202.9	2066.8	1715.8	1343.3	967.1	677.0	540.9	508.6	497.9	490.7	494.3
25°	2145.6	1977.3	1572.5	1142.7	759.4	533.7	469.2	454.9	462.1	465.7	465.7
27.5°	2099.1	1902.0	1425.6	927.7	573.1	451.3	422.7	419.1	433.4	440.6	444.2
30°	2066.8	1834.0	1282.4	730.7	458.5	401.2	386.9	386.9	404.8	411.9	415.5
32.5°	2034.6	1776.7	1128.3	558.8	390.4	358.2	354.6	358.2	368.9	368.9	372.5
35°	2045.3	1722.9	981.5	451.3	351.0	329.5	329.5	329.5	333.1	336.7	336.7
37.5°	2066.8	1708.6	823.9	379.7	322.4	308.1	308.1	304.5	308.1	304.5	308.1
40°	2088.3	1687.1	680.6	336.7	304.5	293.7	290.1	283.0	279.4	279.4	283.0
42.5°	2177.9	1715.8	558.8	308.1	290.1	283.0	272.2	265.1	261.5	261.5	261.5
45°	2292.5	1769.5	462.1	293.7	279.4	261.5	254.3	250.7	243.6	247.2	250.7
47.5°	2464.4	1851.9	404.8	283.0	268.7	247.2	240.0	232.8	232.8	240.0	240.0
50°	2690.1	1988.0	368.9	272.2	257.9	236.4	225.7	222.1	222.1	232.8	232.8
52.5°	2933.7	2145.6	354.6	268.7	247.2	225.7	214.9	211.3	211.3	225.7	225.7
55°	3177.2	2339.1	365.4	268.7	240.0	214.9	204.2	197.0	200.6	211.3	211.3
57.5°	3445.9	2546.8	419.1	268.7	232.8	211.3	197.0	186.3	189.8	193.4	193.4
60°	3739.6	2819.0	512.2	268.7	229.2	204.2	186.3	171.9	171.9	175.5	175.5
62.5°	4036.9	3087.7	644.8	272.2	232.8	200.6	171.9	157.6	154.0	157.6	157.6
65°	4427.4	3517.5	777.3	272.2	243.6	193.4	161.2	143.3	139.7	139.7	143.3
67.5°	4975.4	3825.6	601.8	261.5	250.7	193.4	150.4	132.5	125.4	125.4	125.4
70°	4685.3	3227.4	383.3	243.6	240.0	200.6	143.3	121.8	114.6	111.0	111.0
72.5°	4011.9	2582.6	308.1	229.2	222.1	197.0	136.1	114.6	103.9	100.3	100.3
75°	3216.6	2038.2	268.7	207.8	193.4	164.8	125.4	103.9	96.7	89.6	89.6
77.5°	1576.1	852.5	204.2	182.7	164.8	125.4	111.0	96.7	86.0	78.8	78.8
80°	394.0	297.3	150.4	143.3	121.8	96.7	89.6	82.4	75.2	68.1	68.1
82.5°	211.3	175.5	107.5	96.7	82.4	68.1	68.1	64.5	60.9	53.7	50.1
85°	107.5	103.9	71.6	64.5	53.7	43.0	46.6	46.6	43.0	32.2	32.2
87.5°	57.3	57.3	35.8	28.7	25.1	21.5	21.5	21.5	17.9	14.3	14.3
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)