

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: STREETWORKS

Report Number: P477101

Luminaire Tested: **IFLD-S-SA2D-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477101
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

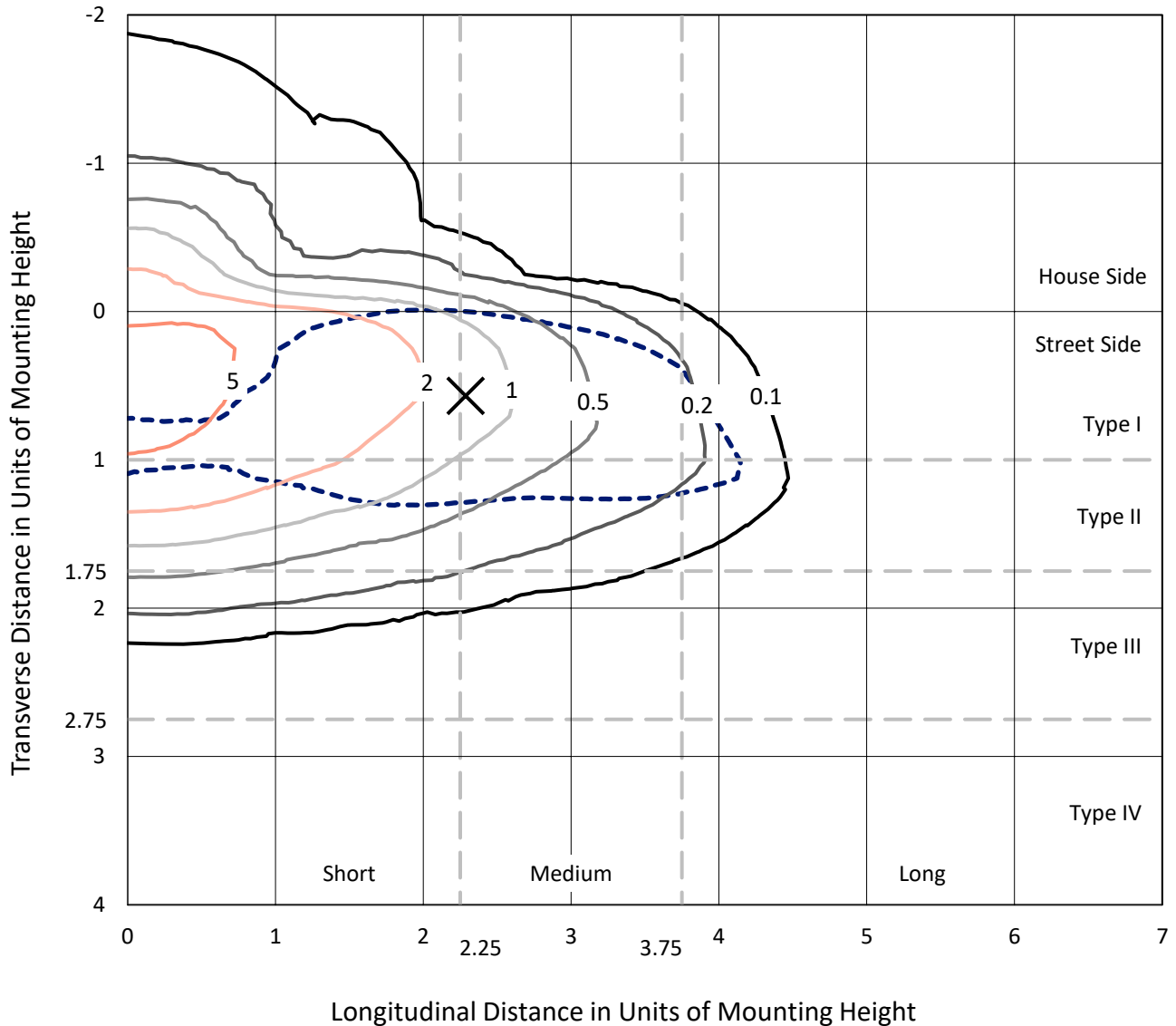
Lumens per Lamp: N/A
Luminaire Lumens: 11561.2 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

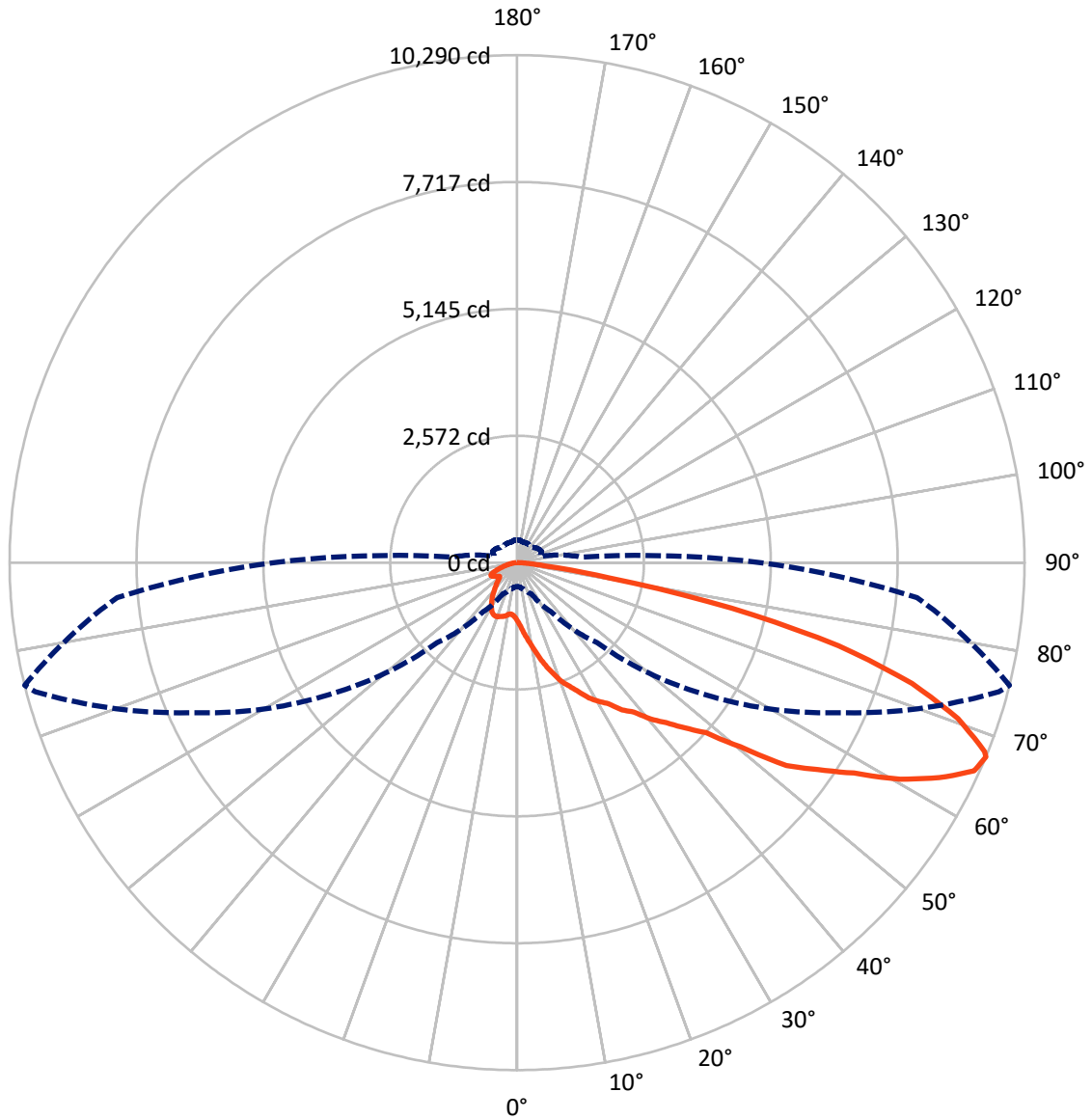
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1644.7	0.0	1644.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9916.5	0.0	9916.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	11561.2	0.0	11561.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	1.2
10°-20°	514.0	4.4
20°-30°	955.6	8.3
30°-40°	1514.8	13.1
40°-50°	2095.1	18.1
50°-60°	2577.2	22.3
60°-70°	2398.2	20.7
70°-80°	1203.4	10.4
80°-90°	165.9	1.4
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°	11561.2	100.0
0°-180°	11561.2	100.0



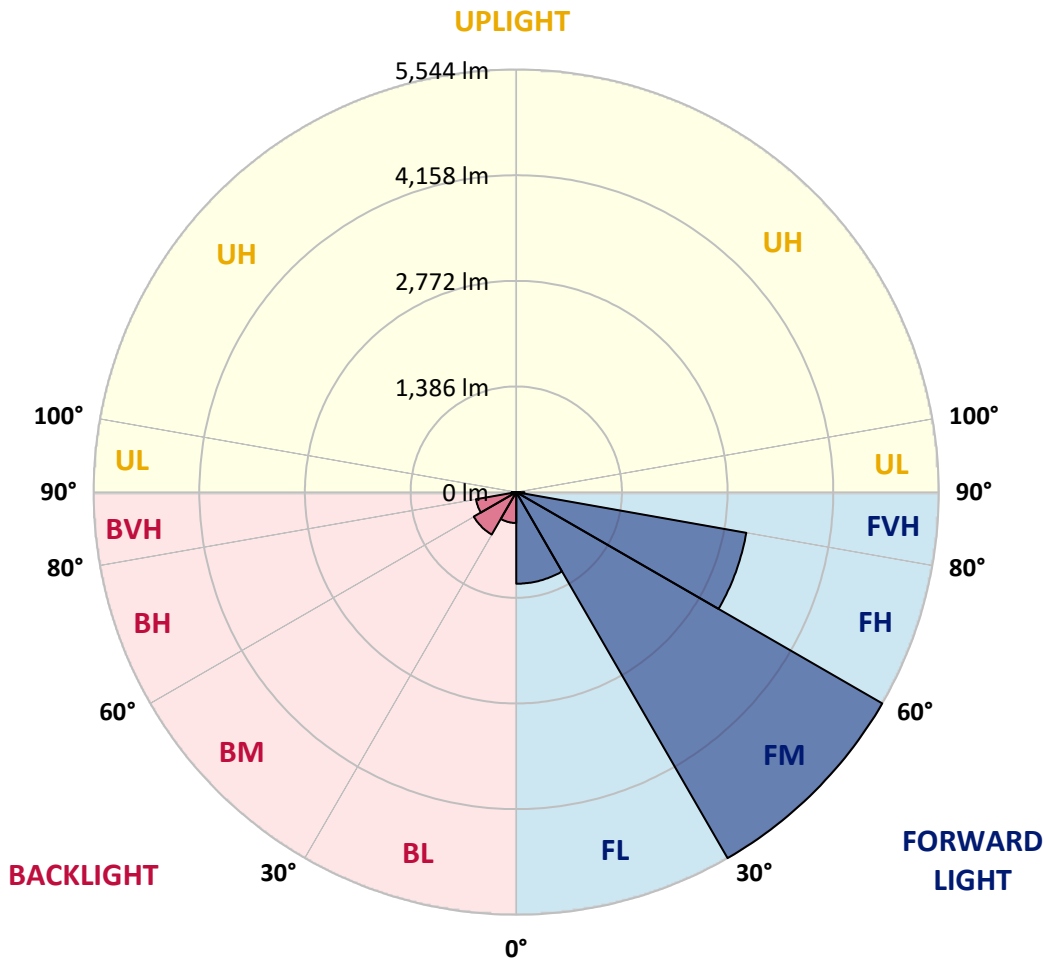
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.6	10.4			
FM (30°-60°)	5544.4	48.0			
FH (60°-80°)	3064.8	26.5			G2/5000
FVH (80°-90°)	105.7	0.9			G2/225
BL (0°-30°)	405.0	3.5	B1/500		
BM (30°-60°)	642.7	5.6	B1/1000		
BH (60°-80°)	536.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	60.2	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1641.6	1621.8	1602.1	1559.9	1545.4	1505.9	1433.4	1353.1	1287.2	1278.0	1231.9
5°	2036.9	2007.9	2001.3	1977.6	1902.5	1826.1	1707.5	1578.4	1417.6	1429.5	1271.4
7.5°	2333.3	2316.2	2280.6	2258.2	2213.4	2112.0	1989.4	1818.1	1613.9	1574.4	1359.7
10°	2557.3	2533.6	2532.2	2512.5	2488.8	2384.7	2291.1	2060.6	1798.4	1744.4	1467.7
12.5°	2670.6	2666.6	2736.4	2736.4	2727.2	2683.7	2523.0	2312.2	1973.6	1955.2	1592.9
15°	2793.1	2760.2	2820.8	2866.9	2890.6	2913.0	2779.9	2557.3	2197.6	2162.0	1727.2
17.5°	2793.1	2790.5	2851.1	2927.5	3051.3	3080.3	3007.9	2782.6	2383.4	2357.0	1874.8
20°	2745.7	2783.9	2826.0	2928.8	3063.2	3180.4	3201.5	3013.1	2588.9	2567.8	2042.1
22.5°	2967.0	2930.1	2973.6	3013.1	3117.2	3295.1	3353.0	3216.0	2805.0	2724.6	2193.6
25°	3338.5	3313.5	3281.9	3223.9	3267.4	3345.1	3433.4	3366.2	2989.4	2899.8	2339.9
27.5°	3700.9	3702.2	3633.7	3507.2	3413.6	3429.5	3533.5	3498.0	3144.9	3105.3	2440.0
30°	4216.0	4184.4	4108.0	3936.7	3753.6	3603.4	3586.2	3620.5	3342.5	3266.1	2583.6
32.5°	4602.0	4608.6	4500.6	4254.2	4003.9	3881.4	3731.2	3745.7	3467.7	3411.0	2698.2
35°	4914.3	4906.4	4830.0	4625.7	4329.3	4181.7	3978.8	3895.8	3758.8	3669.2	2873.5
37.5°	5251.6	5187.0	5063.2	4832.6	4642.9	4438.7	4241.0	4053.9	3952.5	3844.5	3023.7
40°	5387.3	5387.3	5221.3	5115.9	4890.6	4736.4	4608.6	4262.1	4188.3	4167.3	3216.0
42.5°	5291.1	5350.4	5281.9	5162.0	5069.7	4874.7	4840.5	4478.2	4479.5	4437.3	3446.6
45°	5281.9	5200.2	5143.5	5173.8	5130.3	5119.8	5206.8	4777.3	4785.2	4779.9	3756.2
47.5°	5017.0	4980.1	5064.5	5114.5	5150.1	5313.5	5563.8	5134.3	5190.9	5151.4	4113.2
50°	4753.5	4747.0	4799.7	4981.5	5135.6	5404.4	5903.7	5685.0	5870.8	5868.1	4760.1
52.5°	4031.5	4101.4	4308.2	4692.9	5073.7	5528.2	6160.6	6388.6	6743.0	6839.1	5296.3
55°	3341.2	3304.3	3609.9	4168.6	4803.6	5577.0	6447.8	6811.5	7333.2	7403.0	5847.1
57.5°	2599.4	2667.9	2909.0	3445.3	4245.0	5335.9	6658.6	7229.1	7999.9	8053.9	6486.1
60°	1939.4	1948.6	2213.4	2645.5	3501.9	4791.7	6727.2	7657.3	8764.0	8918.2	7155.3
62.5°	1220.0	1275.3	1476.9	1902.5	2636.3	4030.2	6420.2	7916.9	9565.0	9605.9	7829.9
65°	657.4	693.0	844.5	1112.0	1841.9	3048.7	5606.0	7761.4	9941.9	10184.3	8130.3
67°	486.2	492.7	562.6	710.1	1231.9	2295.1	4674.5	7198.8	10113.1	10289.7	8142.1
67.5°	455.9	465.1	520.4	637.7	1092.2	2113.3	4430.8	6998.6	10036.7	10226.4	8049.9
70°	390.0	392.6	405.8	438.7	612.6	1271.4	3017.1	5735.1	9302.9	9484.7	7403.0
72.5°	346.5	349.1	354.4	361.0	415.0	735.2	1835.3	4413.6	8085.5	8375.3	6387.2
75°	304.3	313.6	316.2	310.9	353.1	478.3	976.3	3243.7	6595.4	6736.4	4967.0
77.5°	258.2	262.2	267.5	272.7	314.9	357.0	469.0	2189.7	4526.9	4441.3	2686.4
80°	217.4	218.7	222.7	226.6	272.7	272.7	266.1	1183.1	1977.6	1890.6	907.8
82.5°	155.5	164.7	173.9	184.4	226.6	183.1	173.9	527.0	625.8	595.5	307.0
85°	60.6	73.8	114.6	126.5	143.6	98.8	115.9	227.9	260.9	258.2	114.6
87.5°	10.5	11.9	31.6	48.7	52.7	34.3	55.3	81.7	97.5	105.4	42.2
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°	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1	1183.1
2.5°	1193.7	1152.8	1104.1	1055.3	1023.7	973.6	969.7	939.4	935.4	924.9	930.2
5°	1202.9	1154.1	1055.3	977.6	942.0	913.0	919.6	906.4	902.5	895.9	885.4
7.5°	1275.3	1179.2	1031.6	964.4	938.1	924.9	924.9	909.1	897.2	905.1	913.0
10°	1322.8	1191.0	1050.0	982.9	961.8	932.8	943.3	923.6	930.2	914.3	914.3
12.5°	1399.2	1258.2	1088.3	1010.5	976.3	949.9	960.5	938.1	932.8	934.1	930.2
15°	1501.9	1303.0	1105.4	1026.3	1002.6	969.7	961.8	942.0	922.2	915.7	923.6
17.5°	1598.1	1358.3	1117.2	1035.6	997.3	960.5	951.2	926.2	919.6	899.9	884.0
20°	1712.7	1424.2	1133.0	1043.5	977.6	940.7	917.0	891.9	869.5	857.7	863.0
22.5°	1789.2	1458.5	1141.0	1027.6	948.6	914.3	864.3	847.2	815.5	802.4	791.8
25°	1914.3	1500.6	1121.2	984.2	897.2	841.9	797.1	773.4	751.0	733.8	728.6
27.5°	1945.9	1532.3	1075.1	910.4	815.5	757.6	719.4	690.4	675.9	649.5	644.3
30°	2038.2	1500.6	1006.6	820.8	737.8	678.5	640.3	619.2	585.0	578.4	563.9
32.5°	2097.5	1509.9	919.6	733.8	648.2	595.5	570.5	549.4	540.2	508.6	500.6
35°	2196.3	1478.2	831.3	653.5	574.4	533.6	512.5	505.9	475.6	461.1	447.9
37.5°	2259.5	1459.8	743.1	562.6	494.1	476.9	483.5	455.9	419.0	391.3	382.1
40°	2370.2	1453.2	642.9	487.5	438.7	434.8	455.9	403.2	336.0	312.2	299.1
42.5°	2529.6	1408.4	565.2	420.3	395.2	412.4	416.3	336.0	297.8	278.0	268.8
45°	2682.4	1417.6	488.8	347.8	343.9	368.9	359.7	284.6	262.2	247.7	255.6
47.5°	2976.2	1463.7	413.7	289.8	309.6	333.3	279.3	254.3	233.2	222.7	224.0
50°	3430.8	1508.5	347.8	264.8	292.5	301.7	239.8	230.6	229.2	208.2	206.8
52.5°	3703.5	1491.4	336.0	296.4	313.6	301.7	260.9	254.3	243.7	234.5	224.0
55°	4136.9	1541.5	361.0	346.5	355.7	289.8	292.5	289.8	281.9	258.2	264.8
57.5°	4482.1	1574.4	393.9	387.3	382.1	301.7	305.7	307.0	301.7	291.2	300.4
60°	4956.4	1640.3	428.2	429.5	430.8	328.1	334.6	342.5	341.2	337.3	339.9
62.5°	5247.6	1610.0	466.4	487.5	480.9	382.1	380.8	386.0	386.0	392.6	396.6
65°	5204.1	1498.0	486.2	538.9	504.6	421.6	421.6	424.2	425.6	438.7	440.0
67°	4943.3	1297.7	475.6	546.8	504.6	437.4	437.4	440.0	430.8	465.1	454.5
67.5°	4822.0	1238.4	466.4	540.2	500.6	436.1	436.1	437.4	429.5	462.4	451.9
70°	4193.6	919.6	401.8	478.3	463.8	424.2	424.2	416.3	409.7	453.2	444.0
72.5°	3579.6	668.0	322.8	407.1	419.0	408.4	411.1	391.3	372.9	403.2	395.2
75°	2741.7	491.4	251.6	313.6	354.4	382.1	399.2	349.1	325.4	333.3	318.8
77.5°	1529.6	320.2	198.9	231.9	270.1	355.7	383.4	314.9	266.1	256.9	256.9
80°	519.1	187.1	146.2	172.6	185.8	314.9	358.4	255.6	209.5	200.3	193.7
82.5°	196.3	114.6	100.1	118.6	118.6	249.0	292.5	196.3	158.1	204.2	208.2
85°	89.6	68.5	65.9	68.5	68.5	152.8	206.8	127.8	142.3	122.5	108.0
87.5°	35.6	32.9	30.3	29.0	23.7	26.3	71.1	34.3	64.6	17.1	15.8
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)