

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: LUMARK

Report Number: P970520

Luminaire Tested: **NAV-SB6B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6B-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26628.5 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 220.4
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: 24 FT



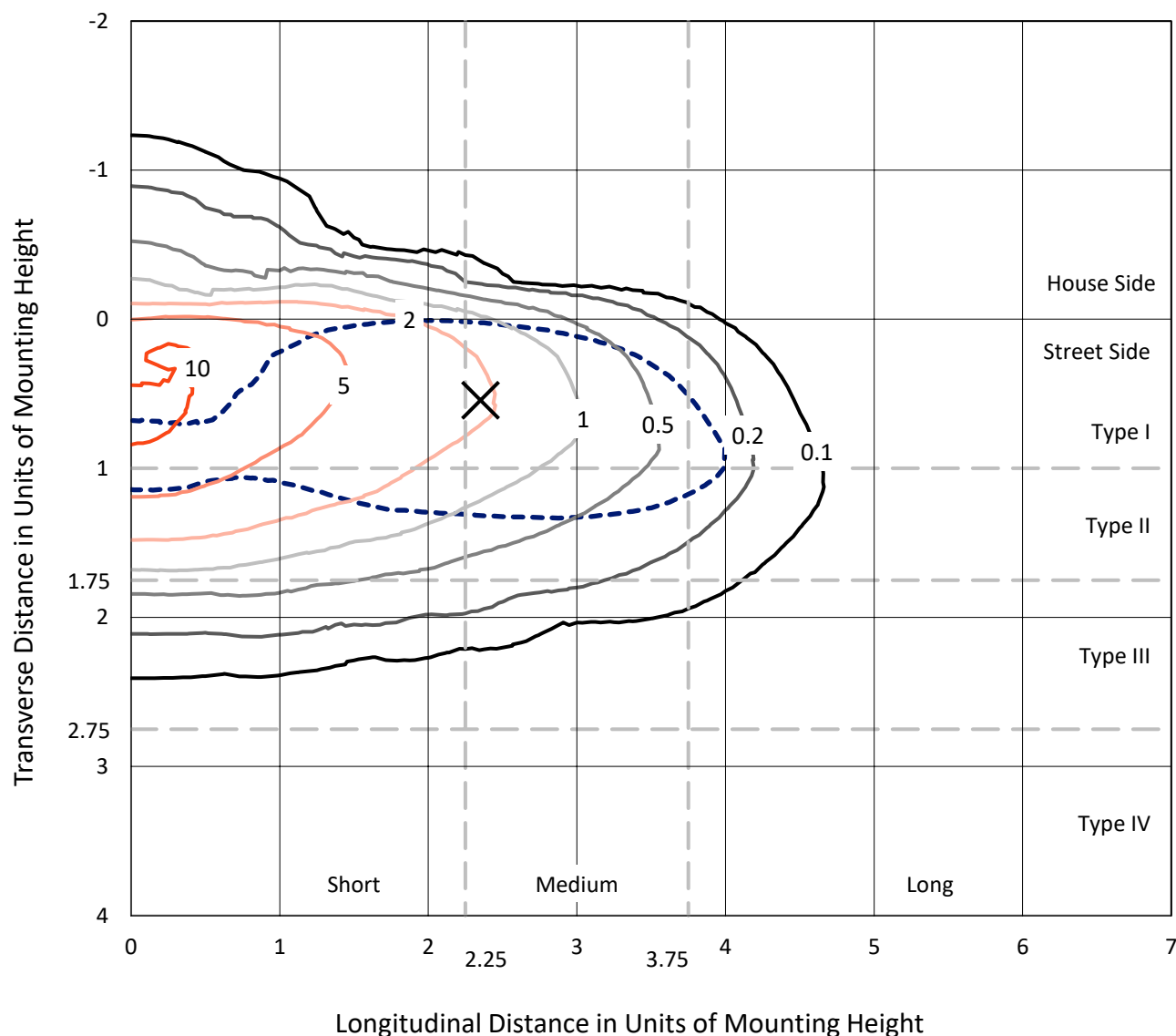
REPORT NUMBER: P970520

CATALOG NUMBER: NAV-SB6B-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

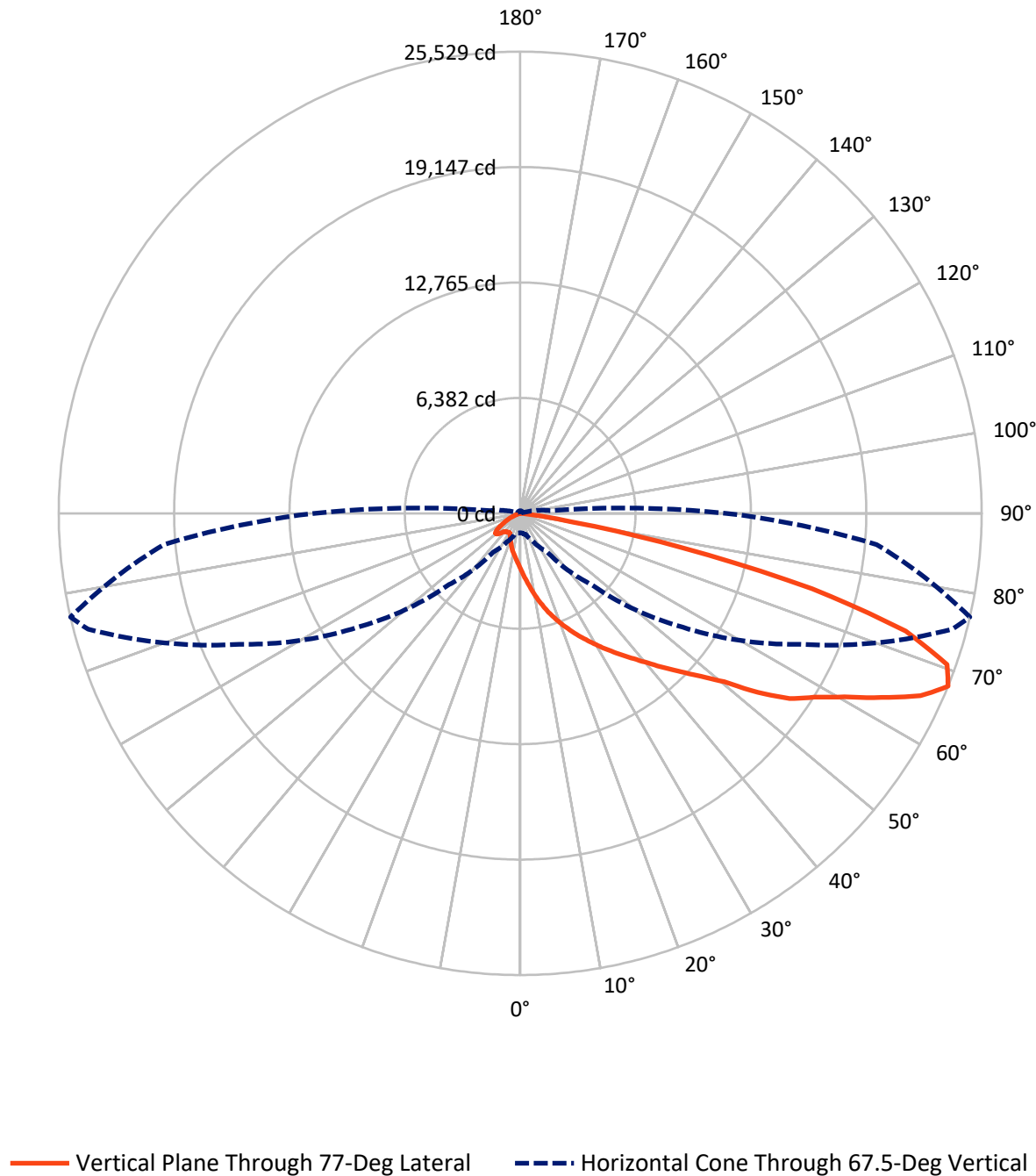
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

REPORT NUMBER: P970520
CATALOG NUMBER: NAV-SB6B-830-U-T2R-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1959.1	0.0	1959.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	24669.4	0.0	24669.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	26628.5	0.0	26628.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	1.2
10°-20°	1097.5	4.1
20°-30°	2117.9	8.0
30°-40°	3676.8	13.8
40°-50°	5338.6	20.0
50°-60°	6130.7	23.0
60°-70°	5322.6	20.0
70°-80°	2507.0	9.4
80°-90°	124.0	0.5
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°	26628.5	100.0
0°-180°	26628.5	100.0

Coefficient of Utilization



REPORT NUMBER: P970520

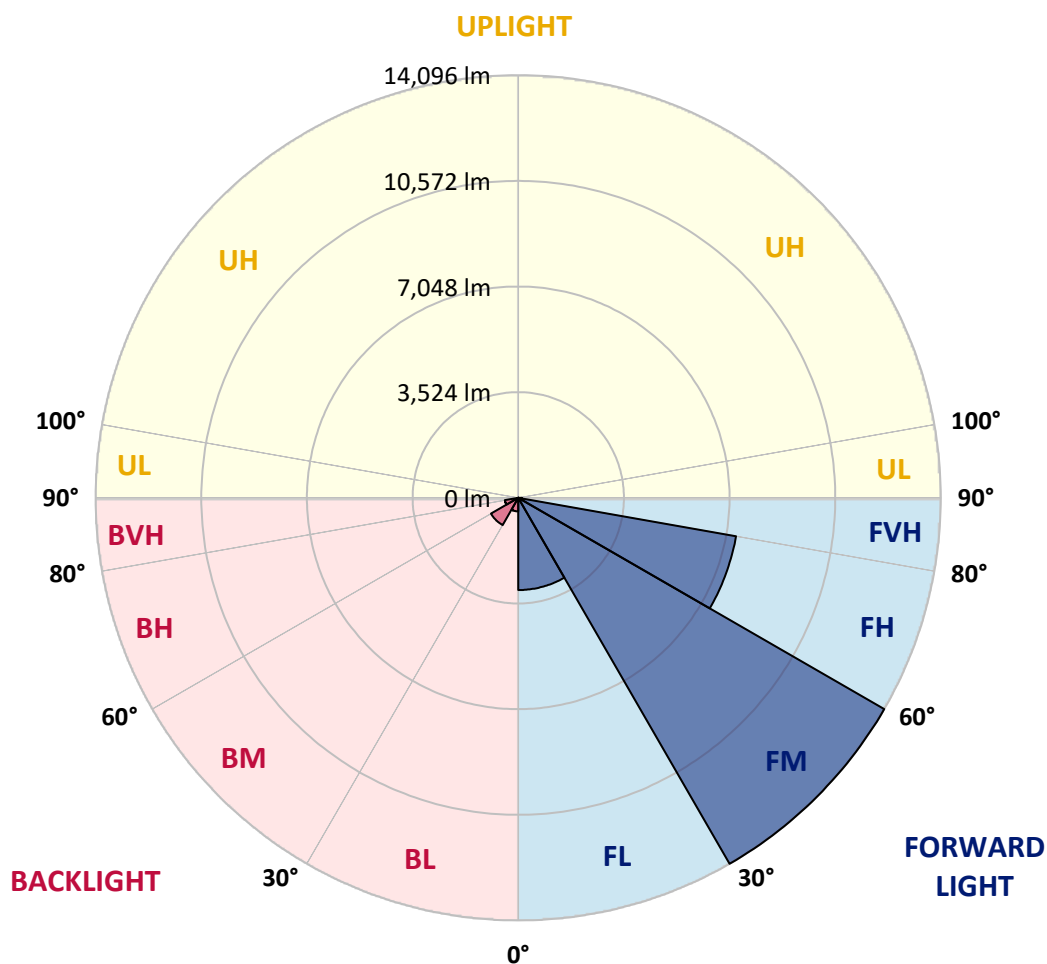
CATALOG NUMBER: NAV-SB6B-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3075.3	11.5			
FM	(30°-60°)	14096.4	52.9			
FH	(60°-80°)	7376.0	27.7			G3/7500
FVH	(80°-90°)	121.7	0.5			G2/225
BL	(0°-30°)	453.6	1.7	B1/500		
BM	(30°-60°)	1049.7	3.9	B2/2500		
BH	(60°-80°)	453.5	1.7	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium



REPORT NUMBER: P970520

CATALOG NUMBER: NAV-SB6B-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7
2.5°	4251.3	4277.7	4239.7	4166.9	4057.9	3986.7	3813.1	3649.4	3467.5	3409.7	3227.7
5°	5182.3	5205.4	5162.4	5083.1	4937.5	4798.6	4570.5	4228.1	3872.7	3758.6	3436.1
7.5°	5871.8	5885.0	5868.4	5795.8	5656.8	5499.7	5245.1	4839.9	4312.5	4186.8	3692.4
10°	6367.8	6410.9	6405.8	6377.8	6285.2	6157.9	5886.7	5425.3	4805.2	4643.1	3981.7
12.5°	6696.9	6744.8	6773.0	6835.8	6830.8	6749.8	6511.7	6023.9	5296.4	5106.1	4307.6
15°	6792.8	6844.0	6951.6	7097.1	7226.0	7267.4	7100.4	6610.9	5837.1	5593.9	4641.5
17.5°	6738.2	6817.6	6946.6	7176.4	7459.2	7646.1	7627.8	7178.1	6328.1	6050.4	4968.9
20°	6859.0	6935.0	7035.9	7229.3	7558.5	7897.4	8033.0	7720.5	6815.9	6524.9	5312.9
22.5°	7527.0	7513.8	7523.7	7555.1	7751.9	8087.6	8367.0	8213.2	7298.8	7001.2	5676.7
25°	8585.3	8525.7	8424.9	8254.5	8204.9	8367.0	8658.1	8649.8	7808.1	7489.0	6048.7
27.5°	9799.0	9789.1	9552.6	9142.5	8911.0	8848.2	8987.1	9074.7	8312.4	7971.8	6422.4
30°	10961.5	10987.9	10668.7	10212.4	9787.4	9541.0	9415.3	9478.2	8825.0	8492.6	6807.7
32.5°	11973.4	12001.5	11654.2	11120.1	10594.3	10296.7	10032.1	9876.7	9384.0	9021.8	7231.0
35°	12828.3	12856.4	12457.8	11867.6	11307.0	11037.5	10738.2	10313.2	9946.2	9608.9	7702.3
37.5°	13592.2	13584.0	13049.9	12454.6	11903.9	11690.6	11533.6	10850.6	10524.9	10199.2	8224.8
40°	14043.6	14078.4	13622.0	12965.5	12431.4	12276.0	12266.1	11517.0	11192.9	10877.1	8797.0
42.5°	14176.0	14237.1	13906.4	13367.3	12882.8	12714.2	12973.8	12238.0	11970.1	11662.6	9443.4
45°	13937.8	13997.4	13846.9	13473.2	13190.4	13081.3	13582.3	12985.4	12800.2	12495.9	10172.7
47.5°	13243.3	13317.7	13354.1	13274.8	13271.5	13382.2	14128.0	13772.5	13785.7	13474.9	11017.6
50°	11899.0	12024.7	12358.7	12639.8	13074.7	13620.3	14658.7	14625.7	14896.9	14629.0	12118.9
52.5°	9455.0	9633.7	10784.5	11553.4	12530.6	13575.7	15242.5	15994.8	16846.4	16454.5	13671.7
55°	7598.1	7598.1	8534.0	9972.6	11469.0	13281.3	15497.2	16884.5	18174.3	18081.6	14764.6
57.5°	6194.2	6268.6	6865.6	8137.2	9932.9	12580.2	15654.2	17443.3	19244.1	19176.3	15832.8
60°	3823.0	3983.5	5111.2	6366.2	8185.1	11331.8	15555.0	18008.8	20542.1	20596.7	17119.2
62.5°	2152.9	2212.5	2715.1	4580.3	6364.5	9653.4	14796.0	18324.7	22202.3	22433.8	18445.4
65°	1486.6	1516.3	1709.8	2850.7	4411.7	7685.8	13312.8	18127.9	23865.8	24333.7	19569.8
67.5°	1079.7	1094.7	1215.3	1741.2	2617.5	5572.5	10987.9	17135.8	24747.1	25529.3	19784.8
70°	830.0	840.0	927.6	1144.3	1546.1	3439.4	7980.0	15163.1	24108.8	25043.1	18683.5
72.5°	674.7	684.6	752.3	846.6	1025.2	2033.9	4836.7	12314.0	21291.2	22299.9	15905.5
75°	568.8	582.1	643.2	704.4	803.6	1306.3	2268.6	8575.4	16011.4	16672.9	11060.7
77.5°	315.8	291.0	522.5	583.7	677.9	826.8	1061.6	5046.7	8967.2	9150.8	4907.8
80°	196.8	203.4	415.0	469.7	520.9	416.7	486.2	1942.9	3108.7	2953.2	950.8
82.5°	11.6	26.4	319.2	339.0	357.2	178.6	183.6	659.8	749.1	687.9	168.6
85°	0.0	0.0	145.5	117.4	124.0	51.2	52.9	153.8	100.9	109.2	33.1
87.5°	0.0	0.0	0.0	3.3	0.0	4.9	9.9	13.2	4.9	6.7	11.6
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: P970520

CATALOG NUMBER: NAV-SB6B-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7	3070.7
2.5°	3112.0	2996.3	2761.5	2531.5	2344.8	2171.2	2047.1	1929.7	1870.2	1866.8	1863.6
5°	3206.2	2963.2	2493.5	2078.5	1744.6	1476.6	1303.0	1179.0	1116.1	1094.7	1091.3
7.5°	3338.5	2973.1	2258.8	1681.7	1288.1	1058.3	959.1	919.4	906.1	891.2	888.0
10°	3505.5	2996.3	2048.8	1354.2	1015.3	899.5	859.9	843.3	833.4	823.5	820.2
12.5°	3692.4	3017.7	1840.4	1124.4	892.9	833.4	805.2	785.5	772.2	760.7	757.4
15°	3874.3	3030.9	1623.8	964.0	830.0	782.2	752.3	730.8	712.7	699.5	697.8
17.5°	4054.5	3049.2	1420.4	868.1	778.8	730.8	701.1	674.7	659.8	644.9	643.2
20°	4254.6	3045.9	1228.6	800.3	727.5	679.6	648.2	623.4	608.5	591.9	590.3
22.5°	4439.8	3029.3	1060.0	742.4	674.7	628.3	593.6	568.8	553.9	540.7	539.0
25°	4653.1	3016.1	919.4	689.5	625.0	578.7	540.7	517.5	501.0	489.4	487.8
27.5°	4858.2	2996.3	816.8	641.5	577.1	532.5	496.1	469.7	454.7	446.5	446.5
30°	5059.9	2991.3	778.8	595.3	534.1	489.4	453.0	428.2	416.7	413.4	411.7
32.5°	5302.9	3004.5	795.4	578.7	494.5	449.8	415.0	396.9	385.3	385.3	385.3
35°	5562.6	3001.2	820.2	593.6	467.9	410.1	383.7	372.1	360.5	360.5	360.5
37.5°	5888.3	3006.1	840.0	618.4	458.1	377.0	362.1	347.3	340.6	340.6	340.6
40°	6374.5	3169.9	830.0	639.9	454.7	353.8	324.1	319.2	314.2	314.2	314.2
42.5°	6969.7	3525.4	843.3	641.5	453.0	337.3	297.7	307.6	296.0	294.4	292.6
45°	7621.3	3914.0	927.6	606.9	451.4	329.0	284.4	296.0	277.8	277.8	277.8
47.5°	8267.8	4299.3	1013.6	557.3	446.5	327.4	272.9	266.2	261.3	262.9	262.9
50°	9159.1	4613.4	1046.7	489.4	434.9	324.1	251.3	253.0	249.7	253.0	253.0
52.5°	10129.7	4679.5	1007.1	413.4	401.8	314.2	236.5	243.0	241.4	244.8	244.8
55°	10734.9	4608.5	831.8	344.0	350.5	274.5	221.6	234.8	234.8	234.8	234.8
57.5°	11360.0	4305.8	590.3	279.4	291.0	224.9	208.4	226.5	224.9	223.2	223.2
60°	11809.7	3816.4	388.6	229.8	231.5	185.2	193.4	213.3	211.7	203.4	203.4
62.5°	12145.3	3275.7	249.7	195.2	176.9	167.0	176.9	193.4	186.9	168.6	165.3
65°	12107.3	2526.6	191.8	167.0	145.5	145.5	153.8	168.6	148.8	119.1	115.7
67.5°	11401.3	1709.8	158.8	140.5	122.4	120.7	127.3	140.5	127.3	100.9	97.6
70°	10139.6	1117.8	127.3	109.2	97.6	89.3	102.5	120.7	107.5	81.0	77.7
72.5°	8229.7	681.2	95.9	79.3	71.1	57.9	81.0	99.2	86.0	59.6	56.2
75°	5324.5	347.3	66.1	51.2	38.0	34.7	59.6	74.4	59.6	36.4	31.5
77.5°	2037.2	145.5	36.4	23.2	19.9	16.5	33.1	44.7	24.8	8.3	6.7
80°	391.9	61.2	18.1	11.6	9.9	6.7	4.9	3.3	0.0	0.0	0.0
82.5°	67.8	19.9	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)